

Digital Mixing System

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Subject to change

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN

ATTENTION

RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

ACHTUNG

GEFAHR: ELEKTRISCHER SCHLAG NICHT ÖFFNEN To reduce the risk of electric shock, do not remove covers (or back). No user-serviceable parts inside. Refer servicing to qualified service personnel.

Afin de prévenir un choc électrique, ne pas enlever les couvercles (où l'arrière) de l'appareil. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'usager.

Um die Gefahr eines elektrischen Schlages zu vermeiden, entfernen Sie weder Geräteabdeckungen noch Rückwand. Überlassen Sie Wartung und Reparatur qualifiziertem Fachpersonal.



This symbol is intended to alert the user to presence of uninsulated "dangerous voltage" within the apparatus that may be of sufficient magnitude to constitute a risk of electric shock to a person.

Ce symbole indique à l'utilisateur qu'il existent à l'intérieur de l'appareil des "tensions dangereuses". Ces tensions élevées ont pour conséquence un risque de choc électrique en cas de contact.

Dieses Symbol deutet dem Anwender an, dass im Geräteinnern die Gefahr der Berührung von "gefährlicher Spannung" besteht. Die Höhe der Spannung kann zu einem elektrischen Schlag führen.



This symbol is intended to alert the user to the presence of **important instructions** for operating and maintenance in the enclosed documentation.

Ce symbole indique à l'utilisateur que la documentation jointe contient d'importantes instructions concernant le fonctionnement et la maintenance.

Dieses Symbol deutet dem Anwender an, dass die beigelegte Dokumentation wichtige Hinweise für Betrieb und Wartung enthält.

CAUTION:

Lithium battery. Danger of explosion by incorrect handling. Replace by battery of the same make and type only.

ATTENTION:

Pile au lithium. Danger d'explosion en cas de manipulation incorrecte. Ne remplacer que par un modèle de même type.

ACHTUNG:

Explosionsgefahr bei unsachgemässem Auswechseln der Lithiumbatterie. Nur durch den selben Typ ersetzen.

ADVARSEL:

Lithiumbatterei. Eksplosinsfare. Udskinftning ma kun foretages af en sagkyndig of som beskrevet i servicemanualen (DK).

CLASS 1 LED PRODUCT Assemblies or sub-assemblies of this product can contain optoelectronic devices. As long as these devices comply with Class 1 of laser or LED product according to EN 60825-1:1994, they will not be expressly marked on the product. If a special design should be covered by a higher class of this standard, the device concerned will be marked directly on the assembly or sub-assembly in accordance with the above standard.

CLASS 1 LASER PRODUCT Baugruppen oder Unterbaugruppen dieses Produktes können optoelektronische Komponenten enthalten. Solange diese der Klasse 1 für Laser- oder LED-Produkte nach der Norm EN 60825-1:1994 entsprechen, sind sie nicht direkt am Gerät bezeichnet. Sollte eine Sonderausführung in eine höhere Klasse fallen, so ist die betreffende Baugruppe oder Unterbaugruppe gemäss dieser Norm mit entsprechender Aufschrift versehen.

FIRST AID

(in case of electric shock)

- 1. Separate the person as quickly as possible from the electric power source:
- by switching off the equipment
- or by unplugging or disconnecting the mains cable
- pushing the person away from the power source by using dry insulating material (such as wood or plastic).
- After having sustained an electric shock, always consult a doctor.

WARNING!

DO NOT TOUCH THE PERSON OR HIS CLOTHING BEFORE THE POWER IS TURNED OFF, OTHERWISE YOU STAND THE RISK OF SUSTAINING AN ELECTRIC SHOCK AS WELL!

- 2. If the person is unconscious:
- · check the pulse,
- reanimate the person if respiration is poor,
- lay the body down, turn it to one side, call for a doctor immediately.

PREMIERS SECOURS

(en cas d'électrocution)

- **1.** Si la personne est dans l'impossibilité de se libérer:
- Couper l'interrupteur principal
- Couper le courant
- Repousser la personne de l'appareil à l'aide d'un objet en matière non conductrice (matière plastique ou bois)
- Après une électrocution, toujours consulter un médecin.

ATTENTION!

NE JAMAIS TOUCHER UNE PERSONNE QUI EST SOUS TENSION, SOUS PEINE DE SUBIR EGALEMENT UNE ELECTROCUTION.

- **2.** En cas de perte de connaissance de la personne électrocutée:
- Contrôler le pouls
- Si nécessaire, pratiquer la respiration artificielle
- Placer l'accidenté sur le flanc et consulter un médecin.

ERSTE HILFE

(bei Stromunfällen)

- 1. Bei einem Stromunfall die betroffene Person so rasch wie möglich vom Strom trennen:
- · Ausschalten des Gerätes
- Ziehen oder Unterbrechen der Netzzuleitung
- Betroffene Person mit isoliertem Material (Holz, Kunststoff) von der Gefahrenquelle wegstossen
- Nach einem Stromunfall sollte immer ein Arzt aufgesucht werden.

ACHTUNG!

EINE UNTER SPANNUNG STE-HENDE PERSON DARF NICHT BERÜHRT WERDEN. SIE KÖN-NEN DABEI SELBST ELEKTRI-SIERT WERDEN!

- **2.** Bei Bewusstlosigkeit des Verunfallten:
- Puls kontrollieren,
- bei ausgesetzter Atmung künstlich beatmen,
- Seitenlagerung des Verunfallten vornehmen und Arzt verständigen.



Installation

Vor der Installation des Gerätes müssen die hier aufgeführten und auch die weiter in dieser Anleitung mit bezeichneten Hinweise gelesen und während der Installation und des Betriebes beachtet werden.

Untersuchen Sie das Gerät und sein Zubehör auf allfällige Transportschäden.

Ein Gerät, das mechanische Beschädigung aufweist oder in welches Flüssigkeit oder Gegenstände eingedrungen sind, darf nicht ans Netz angeschlossen oder muss sofort durch Ziehen des Netzsteckers vom Netz getrennt werden. Das Öffnen und Instandsetzen des Gerätes darf nur von Fachpersonal unter Einhaltung der geltenden Vorschriften durchgeführt werden.

Liegt dem Gerät kein konfektioniertes Netzkabel bei, so muss dieses durch eine Fachperson unter Verwendung der mitgelieferten Kabel-Gerätedose IEC320/C13 oder IEC320/C19 und unter Berücksichtigung der einschlägigen, im jeweiligen Lande geltenden Bestimmungen angefertigt werden; siehe unten.

Vor Anschluss des Netzkabels an die Netzsteckdose muss überprüft werden, ob die Stromversorgungs- und Anschlusswerte des Gerätes (Netzspannung, Netzfrequenz) innerhalb der erlaubten Toleranzen liegen. Die im Gerät eingesetzten Sicherungen müssen den am Gerät angebrachten Angaben entsprechen.

Ein Gerät mit einem dreipoligen Gerätestecker (Gerät der Schutzklasse I) muss an eine dreipolige Netzsteckdose angeschlossen und somit das Gerätegehäuse mit dem Schutzleiter der Netzinstallation verbunden werden (Für Dänemark gelten Starkstrombestimmungen, Abschnitt 107).

Installation

Before you install the equipment, please read and adhere to the following recommendations and all sections of these instructions marked with \bigwedge .

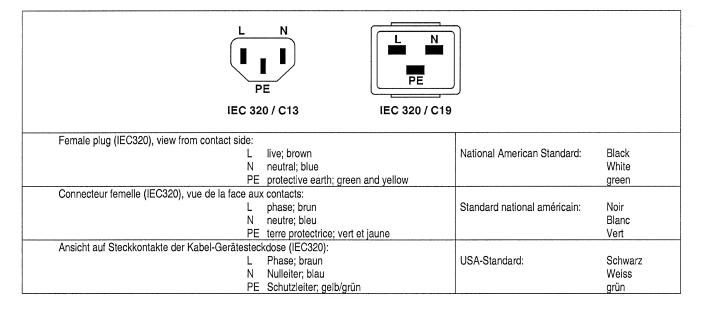
Check the equipment for any transport damage.

A unit that is mechanically damaged or which has been penetrated by liquids or foreign objects must not be connected to the AC power outlet or must be immediately disconnected by unplugging the power cable. Repairs must only be performed by trained personnel in accordance with the applicable regulations.

Should the equipment be delivered without a matching mains cable, the latter has to be prepared by a trained person using the attached female plug (IEC320/C13 or IEC320/C19) with respect to the applicable regulations in your country - see diagram below.

Before connecting the equipment to the AC power outlet, check that the local line voltage matches the equipment rating (voltage, frequency) within the admissible tolerance. The equipment fuses must be rated in accordance with the specifications on the equipment.

Equipment supplied with a 3-pole appliance inlet (equipment conforming to protection class I) must be connected to a 3-pole AC power outlet so that the equipment cabinet is connected to the protective earth conductor of the AC supply (for Denmark the Heavy Current Regulations, Section 107, are applicable).



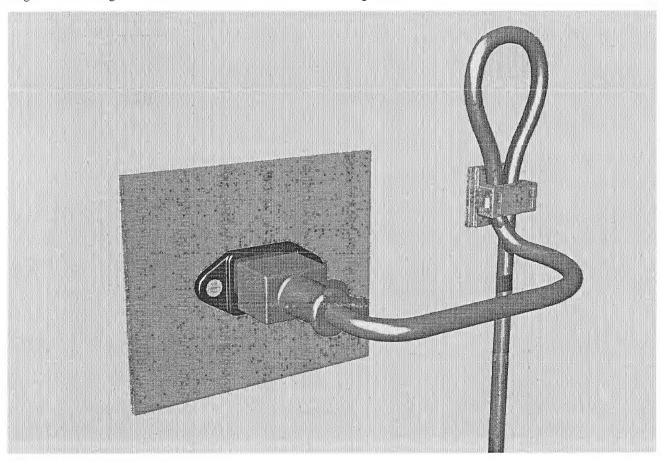


Zugentlastung für den Netzanschluss

Zum Verankern von Steckverbindungen ohne mechanische Verriegelung (z.B. IEC-Kaltgerätedosen) empfehlen wir die folgende Anordnung:

Mains connector strain relief

For anchoring connectors without a mechanical lock (e.g. IEC mains connectors), we recommend the following arrangement:



Vorgehen: Der mitgelieferte Kabelhalter ist selbstklebend. Bitte beachten Sie bei der Montage die folgenden Regeln:

- 1. Der Untergrund muss sauber, trocken und frei von Fett, Öl und anderen Verunreinigungen sein. Temperaturbereich für optimale Verklebung: 20...40° C.
- Entfernen Sie die Schutzfolie auf der Rückseite des Kabelhalters und bringen sie ihn mit kräftigem Druck an der gewünschten Stelle an. Lassen sie ihn unbelastet so lange wie möglich ruhen – die maximale Klebekraft ist erst nach rund 24 Stunden erreicht.
- 3. Die Stabilität des Kabelhalters wird erhöht, wenn Sie ihn zusätzlich verschrauben. Zu diesem Zweck liegen ihm eine selbstschneidende Schraube sowie eine M4-Schraube mit Mutter bei.
- Legen Sie das Kabel gemäss Figur in den Halter ein und pressen Sie die Klemme kräftig auf, bis das Kabel fixiert ist.

Procedure: The cable clamp shipped with your unit is auto-adhesive. If mounting, please follow the rules below:

- 1. The surface to be adhered to must be clean, dry, and free from grease, oil or other contaminants. Best application temperature range is 20...40° C.
- 2. Remove the plastic protective backing from the rear side of the clamp and apply it firmly to the surface at the desired position. Allow as much time as possible for curing. The bond continues to develop for as long as 24 hours.
- For improved stability, the clamp can be fixed with a screw. For this purpose, a self-tapping screw and an M4 bolt and nut are included.
- Place the cable into the clamp as shown in the illustration above and firmly press down the internal top cover until the cable is fixed.

Lufttemperatur und Feuchtigkeit

Allgemein

Die Betriebstauglichkeit des Gerätes oder Systems ist unter folgenden Umgebungsbedingungen gewährleistet: EN 60721-3-3, Set IE32, Wert 3K3.

Diese Norm besteht aus einem umfassenden Katalog von Parametern; die wichtigsten davon sind: Umgebungstemperatur +5...+40 °C; rel. Luftfeuchtigkeit 5...85% – d.h. weder Kondensation noch Eisbildung; abs. Luftfeuchtigkeit 1...25 g/m³; Temperatur-Änderungsrate < 0,5 °C/min. In den folgenden Abschnitten wird darauf näher eingegangen.

Unter den genannten Bedingungen startet und arbeitet das Gerät oder System problemlos. Ausserhalb dieser Spezifikationen möglicherweise auftretende Probleme sind in den folgenden Abschnitten beschrieben.

Umgebungstemperatur

Geräte und Systeme von Studer sind allgemein für einen Umgebungs-Temperaturbereich (d.h. Temperatur der eintretenden Kühlluft) von +5...+40 °C ausgelegt. Bei Installation in einem Schrank muss der vorgesehene Luftdurchsatz und dadurch die Konvektionskühlung gewährleistet sein. Folgende Tatsachen sind dabei zu berücksichtigen:

- 1. Die zulässige Umgebungstemperatur für den Betrieb der Halbleiter-Bauelemente beträgt 0 °C bis +70 °C (commercial temperature range for operation).
- 2. Der Luftdurchsatz der Anlage muss gewährleisten, dass die austretende Kühlluft ständig kühler ist als 70 °C.
- 3. Die mittlere Erwärmung der Kühlluft soll 20 K betragen, die maximale Erwärmung an den heissen Komponenten darf somit um weitere 10 K höher liegen.
- **4.** Zum Abführen einer Verlustleistung von 1 kW bei dieser zulässigen mittleren Erwärmung ist eine Luftmenge von 2,65 m³/min notwendig.

Beispiel: Für ein Rack mit einer Leistungsaufnahme P = 800 W ist eine Kühlluftmenge von $0.8 * 2.65 m^3/min$ nötig, entsprechend $2.12 m^3/min$.

5. Soll die Kühlfunktion der Anlage (z.B. auch bei Lüfter-Ausfall oder Bestrahlung durch Spotlampen) überwacht werden, so ist die Temperatur der Abluft unmittelbar oberhalb der Einschübe an mehreren Stellen im Rack zu messen; die Ansprechtemperatur der Sensoren soll 65 bis 70 °C betragen.

Reif und Tau

Das unversiegelte System (Steckerpartien, Halbleiteranschlüsse) verträgt zwar leichte Eisbildung (Reif). Mit blossem Auge sichtbare Betauung führt jedoch bereits zu Funktionsstörungen. In der Praxis kann mit einem zuverlässigen Betrieb der Geräte bereits im Temperaturbereich ab –15 °C gerechnet werden, wenn für die Inbetriebnahme des kalten Systems die folgende allgemeine Regel beachtet wird:

Wird die Luft im System abgekühlt, so steigt ihre relative Feuchtigkeit an. Erreicht diese 100%, kommt es zu Niederschlag, meist in der Grenzschicht zwischen der Luft und einer kühleren Oberfläche, und somit zur Bildung von Eis oder Tau an empfindlichen Systemstellen (Kontakte, IC-Anschlüsse etc.). Ein störungsfreier Betrieb mit interner Betauung, unabhängig von der Temperatur, ist nicht gewährleistet.

Air temperature and humidity

General

Normal operation of the unit or system is warranted under the following ambient conditions defined by:

EN 60721-3-3, set IE32, value 3K3.

This standard consists of an extensive catalogue of parameters, the most important of which are: ambient temperature +5... $+40^{\circ}$ C, relative humidity 5...85% – i.e. no formation of condensation or ice; absolute humidity 1...25 g/m³; rate of temperature change < 0,5 °C/min. These parameters are dealt with in the following paragraphs.

Under these conditions the unit or system starts and works without any problem. Beyond these specifications, possible problems are described in the following sections.

Ambient temperature

Units and systems by Studer are generally designed for an ambient temperature range (i.e. temperature of the incoming air) of +5...+40 °C. When rack mounting the units, the intended air flow and herewith adequate cooling must be provided. The following facts must be considered:

- 1. The admissible ambient temperature range for operation of the semiconductor components is 0 °C to +70 °C (commercial temperature range for operation).
- 2. The air flow through the installation must provide that the outgoing air is always cooler than 70 °C.
- 3. Average heat increase of the cooling air shall be 20 K, allowing for an additional maximum 10 K increase at the hot components.
- **4.** In order to dissipate 1 kW with this admissible average heat increase, an air flow of 2,65 m³/min is required.

Example: A rack dissipating P = 800 W requires an air flow of $0.8 * 2.65 m^3/min$ which corresponds to $2.12 m^3/min$.

5. If the cooling function of the installation must be monitored (e.g. for fan failure or illumination with spot lamps), the outgoing air temperature must be measured directly above the modules at several places within the rack. The trigger temperature of the sensors should be 65 to 70 °C.

Frost and dew

The unsealed system parts (connector areas and semiconductor pins) allow for a minute formation of ice or frost. However, formation of dew visible with the naked eye will already lead to malfunctions. In practice, reliable operation can be expected in a temperature range above –15 °C, if the following general rule is considered for putting the cold system into operation:

If the air within the system is cooled down, the relative humidity rises. If it reaches 100%, condensation will arise, usually in the boundary layer between the air and a cooler surface, together with formation of ice or dew at sensitive areas of the system (contacts, IC pins, etc.). Once internal condensation occurs, trouble-free operation cannot be guaranteed, independent of temperature.



Vor der Inbetriebnahme muss das System auf allfällige interne Betauung oder Eisbildung überprüft werden. Nur bei sehr leichter Eisbildung kann mit direkter Verdunstung (Sublimation) gerechnet werden; andernfalls muss das System im abgeschalteten Zustand gewärmt und getrocknet werden.

Das System ohne feststellbare interne Eisbildung oder Betauung soll möglichst homogen (und somit langsam) mit eigener Wärmeleistung aufgewärmt werden; die Lufttemperatur der Umgebung soll ständig etwas tiefer als diejenige der Systemabluft sein.

Ist es unumgänglich, das abgekühlte System sofort in warmer Umgebungsluft zu betreiben, so muss diese entfeuchtet sein. Die absolute Luftfeuchtigkeit muss dabei so tief sein, dass die relative Feuchtigkeit, bezogen auf die kälteste Oberfläche im System, immer unterhalb 100% bleibt.

Es ist dafür zu sorgen, dass beim Abschalten des Systems die eingeschlossene Luft möglichst trocken ist (d.h. vor dem Abschalten im Winter den Raum mit kalter, trockener Luft belüften und feuchte Gegenstände, z.B. Kleider, entfernen).

Die Zusammenhänge sind im folgenden Klimatogramm ersichtlich. Zum kontrollierten Verfahren gehören Thermometer und Hygrometer sowie ein Thermometer im System.

Beispiel 1: Ein Ü-Wagen mit einer Innentemperatur von 20 °C und 40% relativer Luftfeuchtigkeit wird am Abend abgeschaltet. Sinkt die Temperatur unter +5 °C, bildet sich Tau oder Eis. **Beispiel 2:** Ein Ü-Wagen wird morgens mit 20 °C warmer Luft von 40% relativer Luftfeuchtigkeit aufgewärmt. Auf Teilen, die kälter als +5 °C sind, bildet sich Tau oder Eis.

Before putting into operation, the system must be checked for internal formation of condensation or ice. Only with a minute formation of ice, direct evaporation (sublimation) may be expected; otherwise the system must be heated and dried while switched off.

A system without visible internal formation of ice or condensation should be heated up with its own heat dissipation, as homogeneously (and subsequently as slow) as possible; the ambient temperature should then always be lower than the outgoing air.

If it is absolutely necessary to operate the cold system immediately within warm ambient air, this air must be dehydrated. In such a case, the absolute humidity must be so low that the relative humidity, related to the coldest system surface, always remains below 100%.

Ensure that the enclosed air is as dry as possible when powering off (i.e. before switching off in winter, aerate the room with cold, dry air, and remove humid objects as clothes from the room).

These relationships are visible from the following climatogram. For a controlled procedure, thermometer and hygrometer as well as a thermometer within the system will be required.

Example 1: An OB-van having an internal temperature of 20 °C and rel. humidity of 40% is switched off in the evening. If temperature falls below +5 °C, dew or ice will be forming.

Example 2: An OB-van is heated up in the morning with air of 20 °C and a rel. humidity of 40%. On all parts being cooler than +5 °C, dew or ice will be forming.

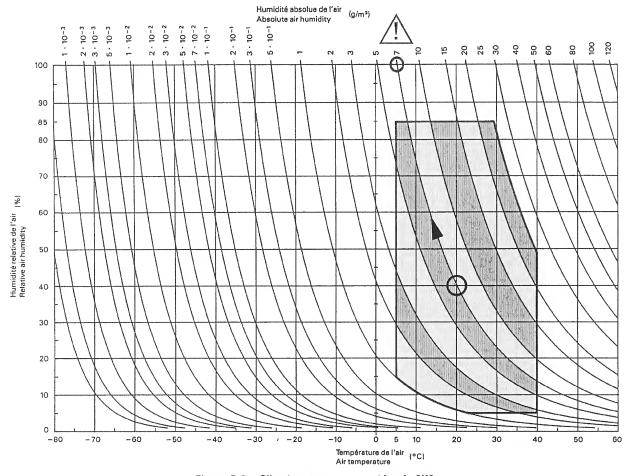


Figure B.3 – Climatogramme pour catégorle 3K3
Climatogram for class 3K3

Wartung und Reparatur

Durch Entfernen von Gehäuseteilen, Abschirmungen etc. werden stromführende Teile freigelegt. Deshalb müssen u.a. die folgenden Grundsätze beachtet werden:

Eingriffe in das Gerät dürfen nur von Fachpersonal unter Einhaltung der geltenden Vorschriften vorgenommen werden.

Vor Entfernen von Gehäuseteilen muss das Gerät ausgeschaltet und vom Netz getrennt werden.

Bei geöffnetem, vom Netz getrenntem Gerät dürfen Teile mit gefährlichen Ladungen (z. B. Kondensatoren, Bildröhren) erst nach kontrollierter Entladung, heisse Bauteile (Leistungshalbleiter, Kühlkörper etc.) erst nach deren Abkühlen berührt werden.

Bei Wartungsarbeiten am geöffneten, unter Netzspannung stehenden Gerät dürfen blanke Schaltungsteile und metallene Halbleitergehäuse weder direkt noch mit nichtisoliertem Werkzeug berührt werden.

Zusätzliche Gefahren bestehen bei unsachgemässer Handhabung besonderer Komponenten:

- Explosionsgefahr bei Lithiumzellen, Elektrolyt-Kondensatoren und Leistungshalbleitern
- Implosionsgefahr bei evakuierten Anzeigeeinheiten
- Strahlungsgefahr bei Lasereinheiten (nichtionisierend), Bildröhren (ionisierend)
- *Verätzungsgefahr* bei Anzeigeeinheiten (LCD) und Komponenten mit flüssigem Elektrolyt.

Solche Komponenten dürfen nur von ausgebildetem Fachpersonal mit den vorgeschriebenen Schutzmitteln (u.a. Schutzbrille, Handschuhe) gehandhabt werden.

Maintenance and Repair

The removal of housing parts, shields, etc. exposes energized parts. For this reason the following precautions should be observed:

Maintenance should only be performed by trained personnel in accordance with the applicable regulations.

The equipment should be switched off and disconnected from the AC power outlet before any housing parts are removed.

Even if the equipment is disconnected from the power, parts with hazardous charges (e.g. capacitors, picture tubes) must not be touched until they have been properly discharged. Touch hot components (power semiconductors, heat sinks, etc.) only when cooled off.

If maintenance is performed on a unit that is opened and switched on, no uninsulated circuit components and metallic semiconductor housings must be touched neither with your bare hands nor with uninsulated tools.

Certain components pose additional hazards:

- Explosion hazard from lithium batteries, electrolytic capacitors and power semiconductors
- Implosion hazard from evacuated display units
- Radiation hazard from laser units (non-ionizing), picture tubes (ionizing)
- Caustic effect of display units (LCD) and such components containing liquid electrolyte.

Such components should only be handled by trained personnel who are properly protected (e.g. safety goggles, gloves).

Elektrostatische Entladung (ESD) bei Wartung und Reparatur

Electrostatic Discharge (ESD) during Maintenance and Repair



ATTENTION:

Observe precautions for handling devices sensitive to electrostatic discharge!

ATTENTION:

Respecter les précautions d'usage concernant la manipulation de composants sensibles à l'électricité statique!

ACHTUNG:

Vorsichtsmassnahmen bei der Handhabung von ESDempfindlichen Bauelementen beachten!

Viele ICs und andere Halbleiter sind empfindlich gegen elektrostatische Entladung (ESD). Unsachgemässe Behandlung von Baugruppen mit solchen Komponenten bei Wartung und Reparatur kann deren Lebensdauer drastisch vermindern.

Bei der Handhabung der ESD-empfindlichen Komponenten sind u.a. folgende Regeln zu beachten:

- ESD-empfindliche Komponenten dürfen ausschliesslich in dafür bestimmten und bezeichneten Verpackungen gelagert und transportiert werden.
- Unverpackte, ESD-empfindliche Komponenten dürfen nur in dafür eingerichteten Schutzzonen (EPA, z.B. Gebiet für Feldservice, Reparatur- oder Serviceplatz) gehandhabt und nur von Personen berührt werden, die durch ein Handgelenkband mit Serienwiderstand mit dem Massepotential des Reparatur- oder Serviceplatzes verbunden sind. Das gewartete Gerät wie auch Werkzeug, Hilfsmittel, EPA-taugliche (elektrisch halbleitende) Arbeits-, Ablage- und Bodenmatten müssen ebenfalls mit diesem Potential verbunden sein.
- Die Anschlüsse der ESD-empfindlichen Komponenten dürfen unkontrolliert weder mit elektrostatisch aufladbaren (Gefahr von Spannungsdurchschlag), noch mit metallischen Oberflächen (Schockentladungsgefahr) in Berührung kommen.
- Um undefinierte transiente Beanspruchung der Komponenten und deren eventuelle Beschädigung durch unerlaubte Spannung oder Ausgleichsströme zu vermeiden, dürfen elektrische Verbindungen nur am abgeschalteten Gerät und nach dem Abbau allfälliger Kondensatorladungen hergestellt oder getrennt werden.

Many ICs and semiconductors are sensitive to electrostatic discharge (ESD). The life of components containing such elements can be drastically reduced by improper handling during maintenance and repair work.

Please observe the following rules when handling ESD sensitive components:

- ESD sensitive components should only be stored and transported in the packing material specifically provided for this purpose.
- Unpacked ESD sensitive components should only be handled in ESD protected areas (EPA, e.g. area for field service, repair or service bench) and only be touched by persons who wear a wristlet that is connected to the ground potential of the repair or service bench by a series resistor. The equipment to be repaired or serviced and all tools, aids, as well as electrically semi-conducting work, storage and floor mats should also be connected to this ground potential.
- The terminals of ESD sensitive components must not come in uncontrolled contact with electrostatically chargeable (voltage puncture) or metallic surfaces (discharge shock hazard).
- To prevent undefined transient stress of the components and possible damage due to inadmissible voltages or compensation currents, electrical connections should only be established or separated when the equipment is switched off and after any capacitor charges have decayed.

SMD-Bauelemente

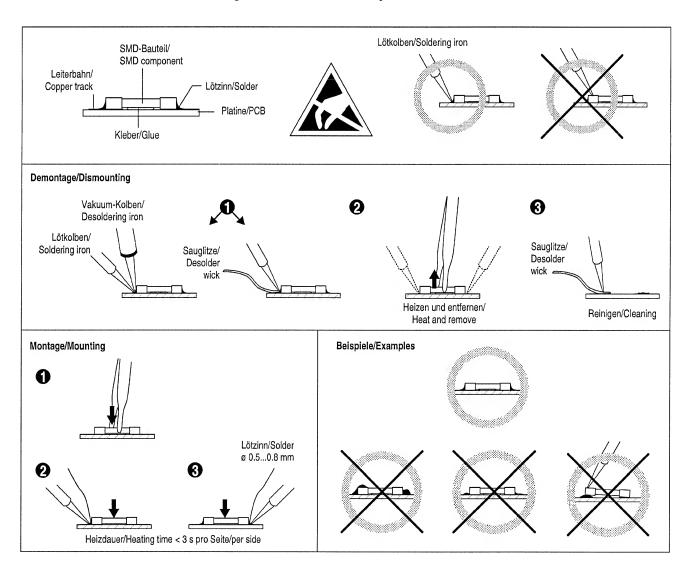
Der Austausch von SMD-Bauelementen ist ausschliesslich geübten Fachleuten vorbehalten. Für verwüstete Platinen können keine Ersatzansprüche geltend gemacht werden. Beispiele für korrekte und falsche SMD-Lötverbindungen in der Abbildung weiter unten.

Bei Studer werden keine handelsüblichen SMD-Bauteile bewirtschaftet. Für Reparaturen sind die notwendigen Bauteile lokal zu beschaffen. Die Spezifikationen von Spezialbauteilen finden Sie in der Serviceanleitung.

SMD Components

SMD components should only be replaced by skilled specialists. No warranty claims will be accepted for circuit boards that have been ruined. Proper and improper SMD soldering joints are depicted below.

Studer does not keep any commercially available SMD components in stock. For repair the corresponding devices should be purchased locally. The specifications of special components can be found in the service manual.



Störstrahlung und Störfestigkeit

Das Gerät entspricht den Schutzanforderungen auf dem Gebiet elektromagnetischer Phänomene, wie u.a. in den Richtlinien 89/336/EWG und FCC, Part 15, aufgeführt:

- 1. Vom Gerät erzeugte elektromagnetische Strahlung ist soweit begrenzt, dass bestimmungsgemässer Betrieb anderer Geräte und Systeme möglich ist.
- 2. Das Gerät weist eine angemessene Festigkeit gegen elektromagnetische Störungen auf, so dass sein bestimmungsgemässer Betrieb möglich ist.

Das Gerät wurde getestet und erfüllt die Bedingungen der im Kapitel "Technische Daten" aufgeführten EMV-Normen. Die Limiten dieser Standards gewährleisten mit angemessener Wahrscheinlichkeit sowohl den Schutz der Umgebung wie auch entsprechende Störfestigkeit des Gerätes. Absolute Garantie, dass keine unerlaubte elektromagnetische Beeinträchtigung während des Betriebes entsteht, ist jedoch nicht gegeben.

Um die Wahrscheinlichkeit solcher Beeinträchtigung weitgehend auszuschliessen, sind u.a. folgende Massnahmen zu beachten:

- Installieren Sie das Gerät gemäss den Angaben in der Betriebsanleitung, und verwenden Sie das mitgelieferte Zubehör.
- Verwenden Sie im System und in der Umgebung, in denen das Gerät eingesetzt ist, nur Komponenten (Anlagen, Geräte), die ihrerseits die Anforderungen der obenerwähnten Standards erfüllen.
- Sehen Sie ein Erdungskonzept des Systems vor, das sowohl die Sicherheitsanforderungen (die Erdung der Geräte gemäss Schutzklasse I mit einem Schutzleiter muss gewährleistet sein), wie auch die EMV-Belange berücksichtigt. Bei der Entscheidung zwischen stern- oder flächenförmiger bzw. kombinierter Erdung sind Vor- und Nachteile gegeneinander abzuwägen.
- Benutzen Sie abgeschirmte Kabel, wo vorgesehen. Achten Sie auf einwandfreie, grossflächige, korrosionsbeständige Verbindung der Abschirmung zum entsprechenden Steckeranschluss und dessen Gehäuse. Beachten Sie, dass eine nur an einem Ende angeschlossene Kabelabschirmung als Sende- bzw. Empfangsantenne wirken kann (z.B. bei wirksamer Kabellänge von 5 m oberhalb von 10 MHz), und dass die Flanken digitaler Kommunikationssignale hochfrequente Aussendungen verursachen (z.B. LS- oder HC-Logik bis 30 MHz).
- Vermeiden Sie Bildung von Masseschleifen oder vermindern Sie deren unerwünschte Auswirkung, indem Sie deren Fläche möglichst klein halten und den darin fliessenden Strom durch Einfügen einer Impedanz (z.B. Gleichtaktdrossel) reduzieren.

Electromagnetic Compatibility

The equipment conforms to the protection requirements relevant to electromagnetic phenomena that are listed in the guidelines 89/336/EC and FCC, part 15.

- 1. The electromagnetic interference generated by the equipment is limited in such a way that other equipment and systems can be operated normally.
- 2. The equipment is adequately protected against electromagnetic interference so that it can operate correctly.

The unit has been tested and conforms to the EMC standards applicable to residential, commercial and light industry, as listed in the section "Technical Data". The limits of these standards reasonably ensure protection of the environment and corresponding noise immunity of the equipment. However, it is not absolutely warranted that the equipment will not be adversely affected by electromagnetic interference during operation.

To minimize the probability of electromagnetic interference as far as possible, the following recommendations should be followed:

- Install the equipment in accordance with the operating instructions. Use the supplied accessories.
- In the system and in the vicinity where the equipment is installed, use only components (systems, equipment) that also fulfill the above EMC standards.
- Use a system grounding concept that satisfies the safety requirements (protection class I equipment must be connected with a protective ground conductor) that also takes into consideration the EMC requirements. When deciding between radial, surface or combined grounding, the advantages and disadvantages should be carefully evaluated in each case.
- Use shielded cables where shielding is specified. The connection of the shield to the corresponding connector terminal or housing should have a large surface and be corrosion-proof. Please note that a cable shield connected only single-ended can act as a transmitting or receiving antenna (e.g. with an effective cable length of 5 m, the frequency is above 10 MHz) and that the edges of the digital communication signals cause high-frequency radiation (e.g. LS or HC logic up to 30 MHz).
- Avoid ground loops or reduce their adverse effects by keeping the loop surface as small as possible, and reduce the noise current flowing through the loop by inserting an additional impedance (e.g. common-mode rejection choke).

Class A Equipment - FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential

area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution:

Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment. Also refer to relevant information in this manual

CE-Konformitätserklärung

Der Hersteller,

Studer Professional Audio AG, CH-8105 Regensdorf,

erklärt in eigener Verantwortung, dass das Produkt

Studer On-Air 5000, Digital Mixing System, (ab Serie-Nr. 1001),

auf das sich diese Erklärung bezieht, entsprechend den Bestimmungen der EU-Richtlinien und Ergänzungen

- Elektromagnetische Verträglichkeit (EMV): 89/336/EWG + 92/31/EWG + 93/68/EWG
- Niederspannung: 73/23/EWG + 93/68/EWG

mit den folgenden Normen und normativen Dokumenten übereinstimmt:

- Sicherheit:
 - Schutzklasse I, EN 60950:2000
- Sicherheit von Laser-Einrichtungen: EN 60825-1:1994 + A11 + A2, EN60825-2:2000
- EMV:

EN 50081-1:1992, EN 50082-1:1992.

Regensdorf, 27. Februar 2002

B! Hochstrasser, Geschäftsleiter

P. Fiala, Leiter QS

CE Declaration of Conformity

The manufacturer,

Studer Professional Audio AG, CH-8105 Regensdorf,

declares under his sole responsibility that the product

Studer On-Air 5000, Digital Mixing System, (on from serial No. 1001),

to which this declaration relates, according to following regulations of EU directives and amendments

- Electromagnetic Compatibility (EMC): 89/336/EEC + 92/31/EEC + 93/68/EEC
- Low Voltage (LVD): 73/23/EEC + 93/68/EEC

is in conformity with the following standards or other normative documents:

- Safety:
 - Class I, EN 60950:2000
- Safety of laser products: EN 60825-1:1994 + A11 + A2, EN60825-2:2000
- EMC:

EN 50081-1:1992, EN 50082-1:1992.

Regensdorf, February 27, 2002

Hochstrasser, President

Fiala, Manager QA



ON-AIR 5000 ASSEMBLIES IN ALPHABETICAL ORDER

Assembly	Order No.	where is it?		
??? PCB (in preparation)	1.940.534	Section 6		
37-pin D-Type Connection Unit (female)	1.980.761	Section 8		
4-Channel Fader Unit	1.940.720	Section 3		
8-Channel Fader Unit	1.940.715	Section 3		
Analog Source Selector	1.917.400	Section 7		
AUX Indicator 4 × LED	1.913.135	Section 6		
Centralized Front Board	1.940.763	Section 4		
Centralized Unit	1.940.765	Section 4		
Channel Controller (Fader Unit)	1.940.756	Section 3		
Channel Controller (Centr. Unit)	1.940.764	Section 4		
CR Monitor Panel RS485	1.950.860	Section 5		
CR Monitor Switch Board	1.990.429	Section 5		
Dual Headphone Amp. Board	1.917.430	Section 7		
Fader Front Board	1.940.713	Section 3		
HDLC Bus Board 12A	1.992.170	Section 5		
HDLC Bus Board 4A	1.992.171	Section 5		
Insert Router Board	1.917.415	Section 7		
LED PPM Meter	1.913.291	Section 6		
Mic Pre-Amplifier	1.913.127	Section 6		
Monitor Group Selector	1.917.410	Section 7		
Optical Synchronous IF	1.940.140	Section 8		
Panel Adapter RS485	1.950.891	Section 5		
PFL Amplifier	1.913.200	Section 6		
PFL Amplifier with Volume & Headphone Jack	1.913.202	Section 6		
PFL/TB/HP Panel RS485	1.950.880	Section 5		
PFL/TB/HP Switch Board	1.990.449	Section 5		
Power Supply ±15V/3.4A	1.940.602	Section 7		
Power Supply 24V/4.2A	1.940.603	Section 7		
Power Supply 3V6V	1.915.111	Section 7		
Power Supply 5V/20A	1.940.601	Section 7		
Siemens 39-pin Connection Unit (male)	1.940.610	Section 8		
Siemens 39-pin Connection Unit (male), gold contacts	1.940.609	Section 8		
Signaling IN 24CH Board	1.917.425	Section 7		
Signaling OUT 16CH Board	1.917.426	Section 7		
Source Selector Panel RS485	1.950.890	Section 5		
Source Selector Switch Board	1.990.499	Section 5		
Studio Monitor Panel RS485	1.950.870	Section 5		
Studio Monitor Switch Board	1.990.439	Section 5		
Surface Interface	1.940.712	Section 3		
Surface Interface	1.940.712	Section 4		
Talkback Sel Sideboard	1.917.421	Section 7		
Talkback Selector	1.917.420	Section 7		
TB Mic/Power Alarm Unit	1.913.129	Section 6		
XLR Connection Unit (female)	1.980.721	Section 8		
XLR Connection Unit (male)	1.980.720	Section 8		



ON-AIR 5000 ASSEMBLIES IN NUMERICAL ORDER

Assembly	Order No.	where is it?
1.913.127	Mic Pre-Amplifier	Section 6
1.913.129	TB Mic/Power Alarm Unit	Section 6
1.913.135	AUX Indicator 4 × LED	Section 6
1.913.200	PFL Amplifier	Section 6
1.913.202	PFL Amplifier with Volume & Headphone Jack	Section 6
1.913.291	LED PPM Meter	Section 6
1.915.111	Power Supply 3V6V	Section 7
1.917.400	Analog Source Selector	Section 7
1.917.410	Monitor Group Selector	Section 7
1.917.415	Insert Router Board	Section 7
1.917.420	Talkback Selector	Section 7
1.917.421	Talkback Sel Sideboard	Section 7
1.917.425	Signaling IN 24CH Board	Section 7
1.917.426	Signaling OUT 16CH Board	Section 7
1.917.430	Dual Headphone Amp. Board	Section 7
1.940.140	Optical Synchronous IF	Section 8
1.940.534	??? PCB (in preparation)	Section 6
1.940.601	Power Supply 5V/20A	Section 7
1.940.602	Power Supply ±15V/3.4A	Section 7
1.940.603	Power Supply 24V/4.2A	Section 7
1.940.609	Siemens 39pin Connection Unit (male), gold contacts	Section 8
1.940.610	Siemens 39pin Connection Unit (male)	Section 8
1.940.712	Surface Interface	Section 3
1.940.712	Surface Interface	Section 4
1.940.713	Fader Front Board	Section 3
1.940.715	8-Channel Fader Unit	Section 3
1.940.720	4-Channel Fader Unit	Section 3
1.940.756	Channel Controller (Fader Unit)	Section 3
1.940.763	Centralized Front Board	Section 4
1.940.764	Channel Controller (Centr. Unit)	Section 4
1.940.765	Centralized Unit	Section 4
1.950.860	CR Monitor Panel RS485	Section 5
1.950.870	Studio Monitor Panel RS485	Section 5
1.950.880	PFL/TB/HP Panel RS485	Section 5
1.950.890	Source Selector Panel RS485	Section 5
1.950.891	Panel Adapter RS485	Section 5
1.980.720	XLR Connection Unit (male)	Section 8
1.980.721	XLR Connection Unit (female)	Section 8
1.980.761	37pin D-Type Connection Unit (female)	Section 8
1.990.429	CR Monitor Switch Board	Section 5
1.990.439	Studio Monitor Switch Board	Section 5
1.990.449	PFL/TB/HP Switch Board	Section 5
1.990.499	Source Selector Switch Board	Section 5
1.992.170	HDLC Bus Board 12A	Section 5
1.992.171	HDLC Bus Board 4A	Section 5

Date printed: 21.02.02

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I Einleitung

Die Einführung von DAB (Digital Audio Broadcasting), der Ersatz der analogen Leitungen zwischen den Studiostandorten und den Sendern durch digitale Netze und der steigende Anteil an digitalen Tonträgern fordern für die Sendeabwicklung eine einfach zu bedienende, flexible und ergonomische Mischpultlösung mit vollständig digitaler Audio- und Datenverarbeitung.

Gleichzeitig wird für die Produktion von Wortbeiträgen, Features und die Vorproduktion gemischter Wort- und Musiksendungen ein einfach zu bedienendes, digitales Mischpult gefordert.

Das neue Mischpult On-Air 5000 eignet sich dank der hohen Flexibilität und funktionalen Übersichtlichkeit für beide Aufgaben hervorragend. Unabhängig davon, ob das Pult durch den Disk Jockey, den Sportredaktor, den Nachrichtensprecher, den Sendetechniker oder durch die Aufnahmetechnikerin bedient wird, kann es dank der persönlichen «Chip Card» in Sekundenbruchteilen für jeden Benutzer optimal konfiguriert werden.

Grosses Gewicht bei der Konzeption des Pultes wurde der Kommunikation mit den angeschlossenen Aussenstellen, wie Sportreportern, Telefonoder Diskussionsteilnehmern, Wahlberichterstattern usw. gewidmet. Das Pult kann mit bis zu 16 Retourkanälen ausgerüstet werden. Zwei verschiedene Multiplex-Ebenen erlauben es, während einer laufenden Sendung, bei der jedem Teilnehmer ein N–1-Signal zurückgegeben wird, eine zweite Konferenzebene einzurichten, über die sich die wartenden Teilnehmer mit dem Ablaufredaktor absprechen können.

EBU-konforme Rufsignale und Anrufsensoren (1900 Hz) und automatische Umschaltung der Konferenzebenen beim Öffnen des Flachbahnreglers erleichtern die Verständigung mit den Aussenposten.

Die Client-/Server-Architektur mit der «Active VMC» (Virtual Mixing Console) als Server erlaubt es, auf Kundenwünsche Rücksicht zu nehmen. Zur Signalverarbeitung wird der auch im digitalen Mischsystem D950 und im MADI-Router verwendete DSP-Core eingesetzt. Seine modernste Technologie setzt bezüglich Flexibilität und Audioqualität neue Grenzen.

Die vier Funktionsblöcke mit den Bedienelementen und dem Instrumentenpanel werden in ein Pult eingebaut, dessen Aussehen den Kundenwünschen und dem Design des Studios weitgehend angepasst werden kann.

I.I Fader-Block

- Maximal 32 Flachbahnregler in Viererblöcken, die sich in Gruppen zu je 8 oder 16 beliebig links oder rechts eines freien Manuskriptplatzes anordnen lassen, aber auch konventionell aneinander gereiht werden können.
- Pro Kanal je ein zuordnungsfähiger Drehgeber, zwei Tasten und ein vierstelliges Display.
- Quellenanzeige mit 8 alphanumerischen Zeichen.
- Je eine Vorhör-, ON-, SELECT- und TALK BACK-Taste pro Kanal.

1.2 Zentraler Bedienteil

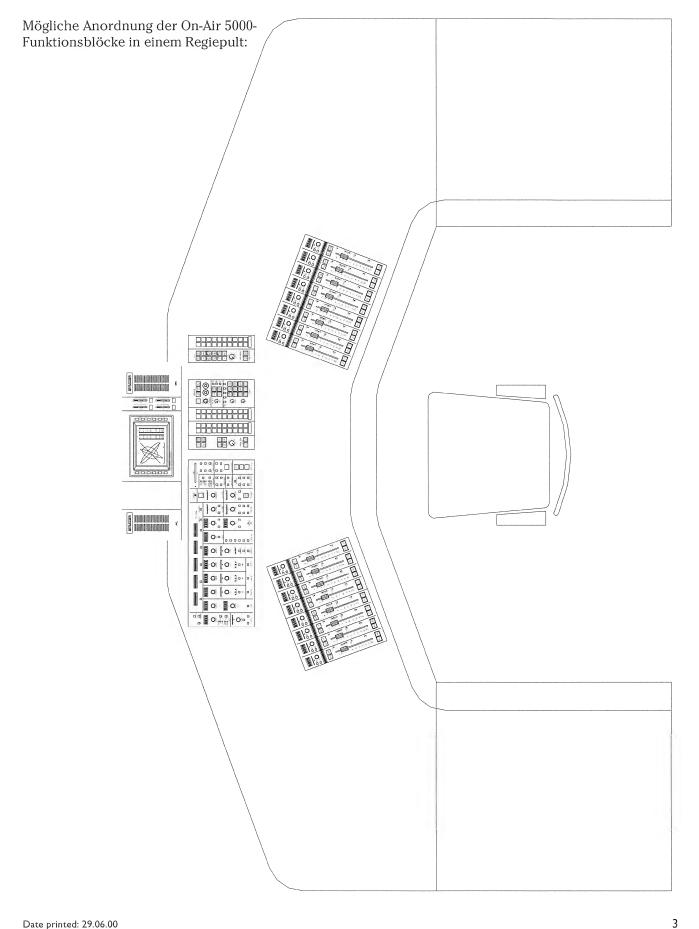
- Jeder Kanal hat über die SELECT-Taste Zugriff auf den zentralen Bedienteil. Dort können Verstärkung, Filter, Equalizer, Kompressoren Begrenzer und Hilfsausgänge individuell eingestellt werden.
- Die Grundkonfiguration des Pultes erfolgt durch Tasten, benutzerspezifische Einstellungen werden auf einer «Chip Card» gespeichert.
- Die Steuerung der Eingangs-Kreuzschiene sowie die Funktionszuordnung für die Drehgeber und Tasten im Kanalzug geschieht hier.
- Die N-1-Schaltung erlaubt es, jeder Quelle ein Rücksignal zu senden. Während der Vorbereitungsphase und in Gesprächspausen können sich externe Teilnehmer untereinander und mit dem Gesprächsleiter im Studio absprechen, ohne die laufende Sendung zu stören.

1.3 Abhören und Meterpanel

Das Abhörfeld und das Meterpanel werden mit Baugruppen aus dem Studer-Mischpultprogramm nach Kundenwunsch bestückt. Weitere Lampenund Tastensätze für Fernsteuerung, Signalisation und Kommando lassen sich hier integrieren.

1.4 Systemeinbindung

Die in einem 19-Zoll-Rack untergebrachte Wandler- und Rechnerelektronik erlaubt den direkten Anschluss des Schaltraums über optische MADI-Verbindungen. Zusammen mit einem MADI-Router im Hauptschaltraum ergibt sich eine äusserst flexible, kostengünstige und zukunftssichere Systemlösung.



2 Funktionsbeschreibung: Zentraler Bedienteil

Der zentrale Bedienteil ist in zwei Hauptfelder gegliedert. Das neun Einheiten breite linke Feld dient zur Beeinflussung eines Eingangskanals, ist also *kanalorientiert*. Sobald auf einer Reglereinheit die SELECT-Taste betätigt wird, übernimmt der zentrale Bedienteil die Steuerung dieses Kanals.

Das rechte Feld des zentralen Bedienteils steuert übergeordnete Funktionen, ist also nicht kanal-, sondern *pultorientiert*. Auf diesem Feld können Summeneinstellungen, generelle Pulteinstellungen und Hilfsfunktionen, z.B. der Tongenerator beeinflusst werden.

2.1 Zentraler Bedienteil, kanalorientiertes Feld

2.1.1 INPUT ROUTING



Fünf achtstellige Anzeigefelder zeigen die Labels einer Gruppe von Quellen an, die am Mischpult direkt, oder über den Madi-Router verfügbar sind. Mit der Tasten PAGE UP und PAGE DOWN können die Gruppen durchgeblättert werden. Durch Betätigen der Taste unterhalb eines der Anzeigefelder wird die angezeigte Quelle auf den gewählten Eingangskanal übernommen. Das Label der gewählten Quelle wird nun auch im Reglerblock oberhalb des Kanalreglers angezeigt.

Eine bereits gewählte Quelle wird automatisch abgetrennt und durch die neu gewählte ersetzt.

Es ist zulässig, die gleiche Quelle auf zwei Eingangskanäle parallel aufzuschalten. Die Kontrolle über die Quelle (z.B. Einstellung der Verstärkung des Mikrofon-Vorverstärkers und der Phantomspeisung) ist dann von beiden Bedienungen steuerbar. Faderstart wird aktiv, sobald wenigstens einer der Eingangskanäle durchgeschaltet ist.

2.1.2 OUTPUT ROUTING

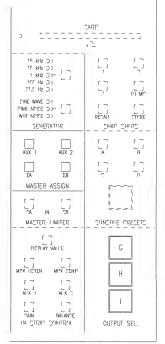
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Alle Ausgänge können über die grafische Oberfläche des Pultrechners konfiguriert werden.

Die MPX SEND-Ausgänge sind den Eingangskanälen zugeordnet. Mit der Eingangswahl der Bedienkanäle wird also gleichzeitig auch der zugehörige Multiplex-Ausgang geschaltet. Auch hier kann die Grundkonfiguration über die grafische Oberfläche des Pultrechners eingegeben werden.

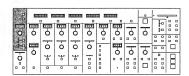
Die Tasten OUTPUT SEL G/H/I und die Tasten MASTER ASSIGN im pultorientierten Teil der Bedieneinheit erlauben es, drei Ausgangsleitungen und (als Option) die Summen- und Aux-Kanäle auch über das Routing-Feld des Pultes auf die dort angezeigten Ausgangsleitungen zu schalten.

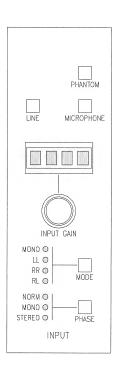
Jeder Ausgang kann auf beliebig viele Ausgangsleitungen geschaltet werden. Bereits gewählte Ausgangsleitungen können jedoch nicht mit einem zweiten Ausgang belegt werden. Bei der



Übernahme wird die vorhergehende Schaltung aufgehoben.

		INPUT	ROUTING
		PAGE UP	PAGE DOWN





2.1.3 Input

Im Input-Feld sind alle Funktionen zusammengefasst, die sich auf den Eingangteil eines Eingangszugs beziehen. Der Eingangskanal wird immer als Stereokanal betrieben. Monosignale werden parallel auf den linken und rechten Kanal geführt. Default-Werte (Grundeinstellungen) sind im folgenden Text durch <u>Unterstreichung</u> markiert.

GAIN

Der INPUT GAIN-Drehgeber

- beeinflusst die Verstärkung des Mikrofon-Vorverstärkers, falls vorhanden; Anzeige im Display oberhalb davon (der interne Gain Trim wird auf 0 dB gesetzt).
- beeinflusst den internen (digitalen) Gain Trim, wenn kein Vorverstärker vorhanden ist.

PHANTOM

Schaltet die Phantomspeisung des Mikrofons <u>ein</u> und aus (nur bei vorgeschaltetem Mikrofon-Vorverstärker wirksam)

MIC, LINE

Umschaltung MIC/LINE (nur bei vorgeschaltetem Mikrofon-Vorverstärker wirksam)

MODE

Mit MODE wird die Zuodnung der beiden Eingänge des nachfolgenden Stereowegs bestimmt. Fünf Zustände werden nacheinander geschaltet:

- <u>NORM</u> (Eingang links auf Ausgang links, Eingang rechts auf Ausgang rechts) wird nicht angezeigt, d.h. alle LEDs sind dunkel.
- MONO (linker und rechter Eingang summiert und auf beide Ausgänge geschaltet): rote LED
- **LL** (Eingang L auf beide Ausgänge): rote LED.
- RR (Eingang R auf beide Ausgänge): rote LED.
- **RL** (Eingang R auf Ausgang L, Eingang L auf Ausgang R): rote LED.

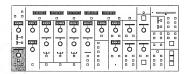
Die Taste leuchtet, wenn nicht der NORM-Zustand herrscht.

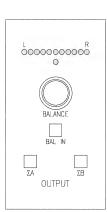
PHASE

Es sind drei Zustände möglich:

- NORM keine Beeinflussung der Phase: grüne LED
- MONO Phase L und R vertauscht: rote LED
- **STEREO** Phase L vertauscht: rote LED

Mit der PHASE-Taste können die drei Zustände durchgeschaltet werden. Die Taste leuchtet, wenn nicht der NORM-Zustand herrscht.





2.1.4 Output

Alle Funktionen, die sich auf den Hauptausgang und die Buswahl eines Eingangskanals auswirken, sind hier steuerbar.

BALANCE

Drehgeber, Display und Taste.

- Bei ausgeschalteter Taste BAL IN leuchtet die grüne, zentral angeordnete LED.
- Bei eingeschalteter Taste BAL IN (rot leuchtend) wird mit dem BALANCE-Drehgeber die Richtungsabbildung der Quelle verschoben. Die grüne LED erlischt.
- Die rote LED-Kette zeigt immer, auch bei ausgeschalteter BAL IN-Taste, die virtuelle Abbildungsposition zwischen L(inks) und R(echts) an. Damit ist eine Voreinstellung der Position auch bei ausgeschalteter Funktion möglich.

Balance-Werte für Monoquellen (wird bei Monoquellen als PAN-Funktion eingesetzt):

3 dB Abschwächung in beiden Kanälen bei Mittelstellung, und 0 dB Abschwächung für den einen bzw. Abschwächung∞ für den anderen Kanal in den beiden Extremstellungen.

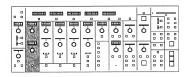
Balance-Werte für Stereoquellen:

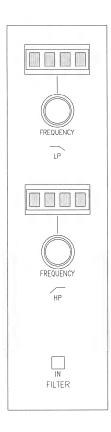
0 dB Abschwächung in beiden Kanälen bei Mittelstellung, und 3 dB Verstärkung für den einen, Abschwächung ∞ für den anderen Kanal in den beiden Extremstellungen.

$\Sigma \mathbf{A}$ und $\Sigma \mathbf{B}$

Tasten für die Summenausgangswahl für den Stereo-Bus Summe A und/oder den Stereo-Bus Summe B.

6



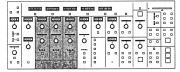


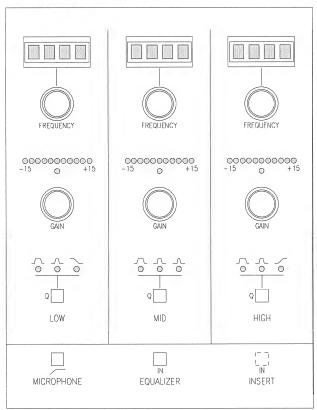
2.1.5 Tief- und Hochpass-Filter (LP/HP)

FILTER IN

Taste zum generellen Ein- und Ausschalten beider Filter.

- Tiefpass-Filter: Flankensteilheit 12 dB/Oktave; Grenzfrequenz einstellbar von 500 Hz bis 16 kHz in 62 Schritten von 1/12 Oktave. Die eingestellte Frequenz wird im vierstelligen Display angezeigt.
- Hochpass-Filter: Flankensteilheit 12 dB/Okt.; Grenzfrequenz einstellbar von 31 Hz bis 1 kHz in 62 Schritten von 1/12 Oktave. Die eingestellte Frequenz wird im vierstelligen Display angezeigt.





2.1.6 Equalizer

Dreiband-Entzerrer mit einstellbarer Anhebung und Absenkung von –15 bis +15 dB. Die eingestellte Frequenz wird mit einem vierstelligen Display, die Anhebung oder Absenkung mit einer roten LED-Kette angezeigt. In der neutralen Position (0 dB) leuchtet zusätzlich die zentrale, grüne LED.

EQUALIZER IN

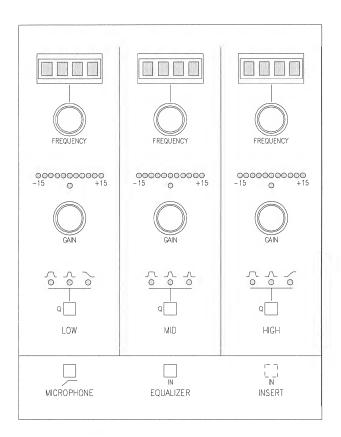
Taste zum Ein-/Ausschalten des Equalizers.

LOW

Güte mit Q-Taste umschaltbar: Peaking, Q = 0.4 oder 1, oder shelving («Kuhschwanz-Entzerrer»). Mitten- bzw. Einsatzfrequenz in 62 Schritten von je 1/12 Oktave einstellbar im Bereich von 31 Hz bis 1 kHz; Einstellung mit GAIN-Drehgeber.

MID

Güte mit Q-Taste umschaltbar: Q = 0,4, 1 oder 2. Mittenfrequenz in 62 Schritten von je 1/12 Oktave einstellbar im Bereich von 200 Hz bis 6,1 kHz; Einstellung mit GAIN-Drehgeber.



HIGH

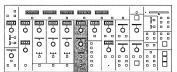
Güte mit Q-Taste umschaltbar: Peaking, Q=0.4 oder 1, oder shelving («Kuhschwanz-Entzerrer»). Mitten- bzw. Einsatzfrequenz in 62 Schritten von je 1/12 Oktave einstellbar im Bereich von 500 Hz bis 16 kHz; Einstellung mit GAIN-Drehgeber.

/ MICROPHONE

Taste zur Fernsteuerung des im Mikrofon-Vorverstärker eingebauten, analogen Trittschallfilters (Grenzfrequenz 75 Hz, Flankensteilheit 12 dB/Oktave (nur bei vorgeschaltetem Mikrofon-Vorverstärker wirksam).

2.1.7 Insert (Option)

Auf Wunsch können die Eingangseinheiten mit einem Einschleifpunkt vor dem Equalizer ausgerüstet werden. Dieser kann mit der Taste INSERT IN (unten rechts im EQUALIZER-Feld) aktiviert werden.





2.1.8 Dynamics

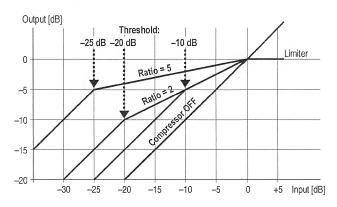
LIMITER / COMPRESSOR IN

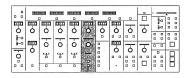
Separate Tasten zum Ein- und Ausschalten der Kompressor- und Limiter-Sektionen.

THRESHOLD

Drehgeber zur Einstellung der Verstärkung des Kompressors und des Kniepunkts (Threshold = Schwelle) in Funktion des Kompressionsverhältnisses; Einstellbereich von –48 bis 0 dB in Stufen von 1 dB.

Das Kompressionsverhältnis (Ratio) ist mit der COMPR RATIO-Taste auf die Werte 1,5, 2, 3, 5 und 10 schaltbar.





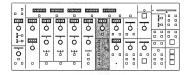


RELEASE

Drehgeber für die Einstellung der Rücklaufzeit, einstellbar von 100 ms bis 3 s.

LIMITER

Der Einsatzpunkt des Limiters wird in der Konfigurationsdatei gemäss der vorgegebenen Übersteuerungsreserve (Headroom) fest eingestellt (Einstellbereich: $-6~\mathrm{dB_{FS}}$ bis $-20~\mathrm{dB_{FS}}$). Auch die Rücklaufzeit ist im Bereich von 1 bis 5 s konfigurierbar. Haltezeit: $16,6~\mathrm{ms}$





2.1.9 Delay / RDS Control

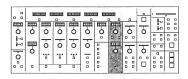
DELAY

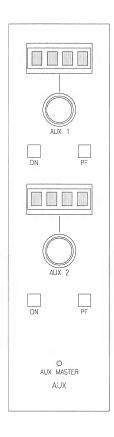
Variable Verzögerung des Signals im Bereich von einem Sample bis 240 ms. Die Verzögerung wird mit der DELAY IN-Taste aktiviert, die Verzögerungszeit mit dem Drehgeber TIME eingestellt. Anzeige in Samples im Bereich von einem bis 47 Samples; oberhalb davon die Verzögerungszeit von 1 bis 240 ms.

RDS Control

Die sechs Tasten A bis F (gelb beleuchtet) erlauben es, dem gewählten Eingangskanal eine RDS-Kennung zuzuordnen, (z.B. Music, News, Traffic Announcer, usw). Diese Kennung wird ausserhalb des Regiepults als Kennungsbit zum digitalen Sendesignal gemischt, sobald der entsprechende Kanal auf Sendung geht.

Das Mischpult On-Air 5000 liefert zur Steuerung des RDS-Coders sechs logische Signale an einem separaten Ausgang.





2.1.10 AUX

Es stehen zwei Stereo-Hilfskanäle AUX 1 und AUX 2 zur Verfügung.

AUX 1/2 ON

Mit der grünen ON-Taste wird der AUX-Kanal aktiviert.

PF

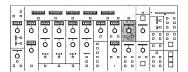
Umschaltung des betreffenden AUX-Abgriffs von «after fader» (hinter Regler) auf «pre fader» (PF, vor Regler) mit der gelben PF-Taste.

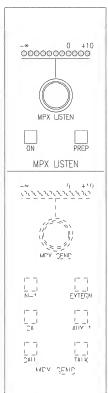
AUX I/2

Drehgeber für den AUX-Send-Pegel; Anzeige im Display in dB.

AUX MASTER

Wird die hier beschriebene AUX-Sektion über MASTER ASSIGN AUX 1 oder AUX 2 gewählt, so kann mit obigem Drehgeber der Summenpegel des AUX-Ausgangs eingestellt werden. In diesem Zustand leuchtet die rote AUX MASTER LED.





2.I.II MPX LISTEN

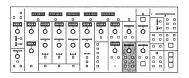
MPX LISTEN / ON

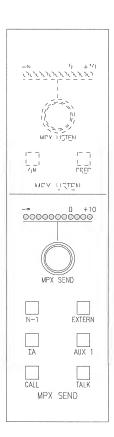
Zum Aufschalten des Pre Fader-Signals des Eingangskanals auf den MPX LISTEN-Lautsprecher. Am Drehgeber MPX LISTEN wird der Abhörpegel eingestellt; Pegelanzeige mit der zugehörigen LED-Kette. Sobald ein Kanalzug auf Sendung geschaltet wird (Fader offen, Summenbus gewählt, ON-Taste gedrückt) wird der MPX-Listen-Ausgang des betreffenden Kanals stummgeschaltet.

MPX LISTEN / PREP

Mit der PREP-Taste wird der Kanal vorbereitet, so dass er bei gedrückter MASTER PREPARATION-Taste (siehe MPX MASTER-Feld) in den Vorbereitungs- oder Probe-Status geht.

Im PREP-Modus wird eine Pre Fader-Mischung aller auf PREP geschalteten Kanäle gebildet und diese Mischung an den MPX-Teilnehmer ohne dessen eigenen Beitrag (N–1-Schaltung) zurückgeführt. Alle Teilnehmer können sich damit während der Vorbereitungsphase oder zwischen den Sendungen gegenseitig hören und miteinander absprechen, ohne die laufende Sendung zu beeinflussen.





Sobald ein Teilnehmer auf Sendung geht, wird er vom PREP-Modus in den normalen MPX-Modus zurückgeschaltet. Damit hört er auf seinem Return-Kanal anstelle seiner Kollegen (die nicht auf Sendung sind) die mit MPX SEND gewählte Quelle.

2.1.12 MPX SEND

Mit den vier Tasten N–1, EXTERN, ΣA , AUX 1 kann das Returnsignal für jeden Teilnehmer getrennt gewählt und mit dem Drehgeber MPX SEND dessen Pegel eingestelt werden; Pegelanzeige mit der zugehörigen LED-Kette.

N-I

Sendesignal (ΣA) ohne den eigenen Beitrag.

ΣΑ

Sendesignal einschliesslich des eigenen Beitrags.

AUX

Das über den Hilfskanal AUX 1 zusammengemischte Signal.

EXTERN

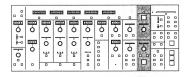
Eine beliebige, am Patch-Panel angeschlossene Quelle (normalerweise der Off Air-Empfänger des laufenden Programms).

CALL

Die CALL-Taste schaltet das 1900 Hz-Rufsignal auf den SEND-Ausgang.

TALK

Die Taste TALK erlaubt die Kommandogabe auf den gewählten SEND-Ausgang. Sie ist der TALK-Taste im Faderblock des betreffenden Eingangskanals parallel geschaltet. Ankommende Rufsignale (1900 Hz) vom Teilnehmer werden durch die LED in der Taste und einen Summer signalisiert. LED und Summer bleiben solange aktiv, bis die zugehörige TALK-Taste betätigt wird.





2.2 Zentraler Bedienteil, pultorientiertes Feld

2.2.1 MPX MASTER

PREPARATION

Mit dieser Taste werden alle mit MPX LISTEN PREP (siehe weiter vorn) vorgewählten Kanäle in den Vorbereitungs- oder Probe-Modus gebracht. Damit wird eine Gruppe von Teilnehmern gebildet, die sich unabhängig von der laufenden Sendung besprechen können.

LISTEN MASTER

Mit diesem Drehgeber wird der Summenpegel aller auf MPX LISTEN geschalteten Kanäle eingestellt; Pegelanzeige mit der zugehörigen LED-Kette.

PREPARATION MIX

Der oben beschriebenen PREPARATION-Gruppe kann das laufende Programm oder eine externe Quelle zugemischt werden. Pegeleinstellung mit dem Drehgeber PREPARATION; Pegelanzeige mit der zugehörigen LED-Kette.

Mit den beiden Tasten können folgende Quellen gewählt werden:

AUX I

Das über den Hilfskanal AUX 1 zusammengemischte Signal.

EXTERN

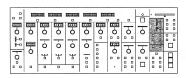
Eine beliebige, am Patch-Panel angeschlossene Quelle (normalerweise der Off Air-Empfänger des laufenden Programms).

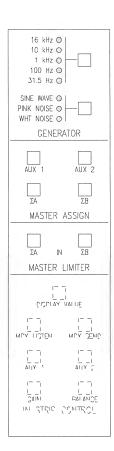
TALK TO ALL

Über die Taste TALK TO ALL wird gleichzeitig auf alle MPX SEND-Kanäle gesprochen.

2.2.2 OVERLOAD

Die rote OVERLOAD-LED leuchtet auf, sobald irgendwo im Pult die fest eingestellte Alarmgrenze überschritten wird.





2.2.3 GENERATOR

MODE

Die untere Taste schaltet um zwischen Weissem und Rosa Rauschen sowie Sinussignal.

SINE WAVE

Die obere Taste dient zur Frequenzwahl im SINE WAVE-Modus.

Folgende Frequenzen stehen zur Verfügung: 16 kHz, 10 kHz, 1 kHz, 100 Hz und 31,5 Hz.

2.2.4 MASTER ASSIGN

Mit den vier MASTER ASSIGN-Tasten kann der kanalorientierte Teil der zentralen Bedieneinheit den MASTER-Kanälen zugeschaltet werden. Sofern dies (kundenspezifisch) so konfiguriert ist, können nun die Summenausgangspegel an den beiden AUX-Drehgebern beeinflusst, Equalizer zugeschaltet, und über die Routing-Wahl die gewünschten Ziele gewählt werden.

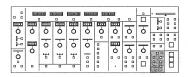
Bei AUX 1 und AUX 2 werden die Drehgeber AUX 1 und AUX 2 als Hauptregler aufgeschaltet (AUX MASTER LED leuchtet, siehe Abschnitt AUX weiter vorn), und das OUTPUT ROUTING wird ermöglicht.

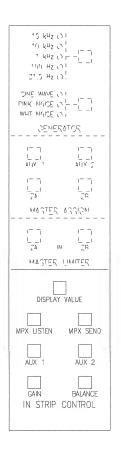
Bei ΣA und ΣB wird nur das OUTPUT ROUTING ermöglicht.

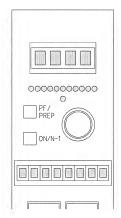
2.2.5 Master Limiter

$\Sigma A IN, \Sigma B IN$

Diese Tasten schalten die den Summenausgängen A und B fix zugeordneten Begrenzer ein und aus. Der eingeschaltete Zustand wird durch die roten LEDs in den Tasten signalisiert.







2.2.6 In Strip Control

Mit den Tasten im IN STRIP CONTROL-Feld werden gewisse Steuerfunktionen vom zentralen Bedienfeld in den oberen Bereich des Faderblocks delegiert. Die pro Eingangskanal eingebauten Drehgeber, die beiden Tasten und das zugehörige vierstellige Display können damit die folgenden Funktionen übernehmen:

MPX LISTEN

Das obere Bedienfeld aller Eingangskanäle (siehe untere Illustration) übernimmt die MPX LISTEN-Funktionen.

Mit der ON-Taste kann das Pre Fader-Signal des Eingangskanals auf den MPX LISTEN-Lautsprecher geschaltet werden. Am Drehgeber wird der Abhörpegel eingestellt, Anzeige der Pegeleinstellung mit der oberhalb davon angeordneten LED-Kette. Die Taste PF/PREP bereitet den betreffenden Kanal so vor, dass er bei gedrückter PREPARATION-Taste im MPX MASTER-Feld in den Vorbereitungs- oder Probe-Status umschaltet.

Sobald ein Kanalzug auf Sendung geschaltet wird (Fader offen, Summenbus gewählt, ON-Taste gedrückt) wird der MPX Listen-Ausgang des betreffenden Kanals stummgeschaltet und der PREP-Status des Kanals ausgeschaltet.

MPX SEND

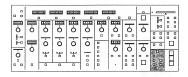
Das obere Bedienfeld aller Eingangskanäle übernimmt die MPX SEND-Funktionen.

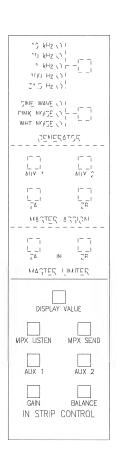
Am Drehgeber wird der MPX SEND-Pegel eingestellt, Anzeige der Pegeleinstellung mit der oberhalb davon angeordneten LED-Kette. Mit der ON-Taste wird der Return-Ausgang auf N-1 umgeschaltet. Der Taste PF/PREP ist keine Funktion zugeordnet.

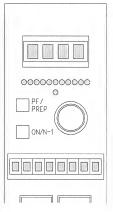
AUX I / AUX 2

Das obere Bedienfeld aller Eingangskanäle übernimmt die AUX 1- bzw. AUX 2-Funktionen.

Mit der grünen ON-Taste wird der AUX-Kanal aktiviert. Umschaltung des betreffenden AUX-Abgriffs von «after fader» (hinter Regler) auf «pre fader» (PF, vor Regler) mit der gelben PF/PREP-Taste. Am Drehgeber wird der AUX SEND-Pegel eingestellt, das Display zeigt den Pegel in dB an.







GAIN

Das obere Bedienfeld aller Eingangskanäle (siehe untere Illustration) übernimmt die INPUT GAIN-Einstellung.

Der Drehgeber

- beeinflusst die Verstärkung des Mikrofon-Vorverstärkers, falls vorhanden; Anzeige im Display oberhalb davon (der interne Gain Trim wird auf 0 dB gesetzt).
- beeinflusst den internen (digitalen) Gain Trim, wenn kein Vorverstärker vorhanden ist.

BALANCE

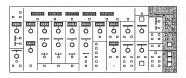
Das obere Bedienfeld aller Eingangskanäle übernimmt die BALANCE-Einstellung.

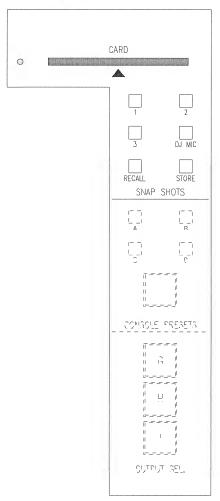
Bei ausgeschalteter Taste ON leuchtet die grüne, zentral angeordnete LED. Bei eingeschalteter Taste ON (grün) wird mit dem Drehgeber die Richtungsabbildung der Quelle verschoben. Die grüne LED erlischt. Die rote LED-Kette zeigt immer, auch bei ausgeschalteter Balance, die virtuelle Abbildungsposition zwischen L(inks) und R(echts) an. Damit ist eine Voreinstellung der Position auch bei ausgeschalteter Funktion möglich.

DISPLAY VALUE

Diese Taste schaltet die Anzeige des vierstelligen Displays auf dem Faderblock um.

Im Normalfall zeigen die Displays die «In Strip Control Labels», wie sie im Layout des Faderblocks aufgeführt sind. Mit aktivierter Taste DISPLAY VALUE werden bei allen Kanälen die effektiv eingestellten Werte angezeigt.





2.2.7 CONSOLE PRESETS

Das CONSOLE PRESETS-Feld teilt sich in einen oberen, dem Benutzer individuell zugänglichen Bereich und in einen unteren, fest vorgegebenen Bereich.

CARD

In die mit CARD bezeichnete Öffnung kann eine persönliche Kennkarte eingeschoben werden. Diese hat die Funktion eines Schlüssels, der den Zugang zu den unter diesem Schlüssel abgelegten Snap Shot-Speichern öffnet. Je nach Kartenart ist eine Veränderungen der gespeicherten Daten gestattet oder verboten.

Ist keine Karte eingeschoben, so wird ein Speicherbereich geöffnet, der allen Benutzern frei zugänglich ist. Er kann dort, über die SNAP SHOTS-Tasten, die ersten vier Pulteinstellung abrufen.

SNAP SHOTS

In diesem Bereich sind vier gelbe SET-Tasten, eine grüne RECALL- und eine rote STORE-Taste untergebracht.

SNAP SHOTS / DJ MIC

Diese Taste wirkt sich nur auf den DJ-Mikrofonkanal aus. Sie setzt alle Parameter dieses Kanals gemäss der Einstellung, die für diesen Benutzer gespeichert ist. Es ist damit möglich, jedem Karteninhaber eine individuelle Verstärkungs-, Equalizer- und Filtereinstellung zuzuordnen.

SNAP SHOTS / I, 2, 3

Über diese Tasten kann der Karteninhaber drei komplette Pulteinstellungen (Snap Shots) aufrufen und, sofern er dazu berechtigt ist, diese auch speichern.

SNAP SHOTS / RECALL

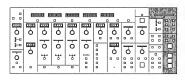
Vorbereitungstaste zum Setzen eines der oben genannten Zustände.

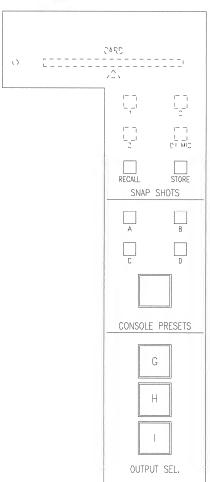
Also z.B.:

SNAP SHOTS / **RECALL** (RECALL-Taste leuchtet grün).

SNAP SHOTS / 1; mit einem Doppelklick wird der Snapshot Nr. 1 abgerufen, die vorher gewählte CONSOLE PRESETS-Taste erlischt, und die Taste SNAP SHOTS / 1 leuchtet.

Alle Parameter des Pultes sind damit neu gesetzt.





SNAP SHOTS / STORE

Vorbereitungstaste zum Speichern des gegenwärtigen Pultzustands.

Der Ablauf ist analog dem RECALL-Vorgang, also:

SNAP SHOTS / **STORE** (rote STORE-Taste leuchtet).

SNAP SHOTS / 1; mit einem Doppelklick wird der Speichervorgang ausgelöst, eine allenfalls vorher gewählte CONSOLE PRESETS-Taste erlischt; die Taste SNAP SHOTS / RECALL leuchtet.

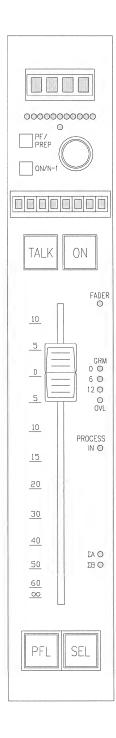
Damit ist der gegenwärtige Pultzustand im Speicherbereich «1» des Karteninhabers gespeichert.

CONSOLE PRESETS (unterer Teil)

Mit den fünf gelben Tasten können fest vorgegebene Pultzustände (Presets) abgerufen werden. Diese sind allen Benutzern (auch ohne Kennkarte) zugänglich. Änderungen der gespeicherten Einstellungen sind nur durch den Supervisor mit Hilfe der Master-Karte möglich.

OUTPUT SEL.

Die drei Tasten G, H UND I können zur Um- und Anschaltung eines automatischen Sendeablaufsystems eingesetzt werden, oder aber so konfiguriert werden, dass das OUTPUT ROUTING von drei Leitungen ermöglicht wird.



3 Funktionsbeschreibung: Faderblock

Jede Faderblock-Einheit ist mit den Bedienelementen für vier Eingangskanäle ausgerüstet. Je nach Grösse des Pultes werden zwei bis acht solcher Einheiten eingesetzt, was die gleichzeitige Bedienung von 8 bis 32 Eingangskanälen ermöglicht.hierher

3.1 Oberes Feld

Im oberen Feld des Faderblocks sind pro Eingangskanal ein Drehgeber, zwei Tasten und ein vierstelliger Display eingebaut. Die Funktionen dieser Elemente werden durch die Tasten im IN STRIP CONTROL-Feld des zentralen Bedienteils gesteuert.

MPX LISTEN

Nach Wahl von MPX LISTEN im Feld IN STRIP CONTROL übernimmt das obere Bedienfeld aller Faderblöcke die MPX LISTEN-Funktionen.

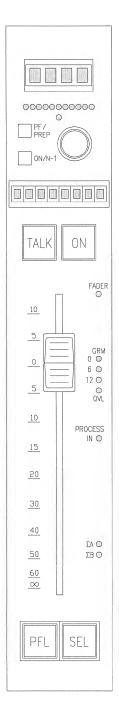
Mit der ON-Taste kann das Pre Fader-Signal des Eingangskanals auf den MPX LISTEN-Lautsprecher geschaltet werden. Am Drehgeber wird der Abhörpegel eingestellt, Anzeige der Pegeleinstellung mit der oberhalb davon angeordneten LED-Kette. Die Taste PF/PREP bereitet den betreffenden Kanal so vor, dass er bei gedrückter PREPARATION-Taste im MPX MASTER-Feld in den Vorbereitungs- oder Probe-Status umschaltet.

Sobald ein Kanalzug auf Sendung geschaltet wird (Fader offen, Summenbus gewählt, ON-Taste gedrückt) wird der MPX Listen-Ausgang des betreffenden Kanals stummgeschaltet und der PREP-Status des Kanals ausgeschaltet.

MPX SEND

Nach Wahl von MPX SEND im Feld IN STRIP CONTROL übernimmt das obere Bedienfeld aller Faderblöcke die MPX SEND-Funktionen.

Am Drehgeber wird der MPX SEND-Pegel eingestellt, Anzeige der Pegeleinstellung mit der oberhalb davon angeordneten LED-Kette. Mit der ON-Taste wird der Return-Ausgang auf N-1 umgeschaltet. Der Taste PF/PREP ist keine Funktion zugeordnet.



AUX I / AUX 2

Nach Wahl von AUX 1 oder AUX 2 im Feld IN STRIP CONTROL übernimmt das obere Bedienfeld aller Faderblöcke die AUX 1- oder AUX 2-Funktionen.

Mit der grünen ON-Taste wird der AUX-Kanal aktiviert. Umschaltung des betreffenden AUX-Abgriffs von «after fader» (hinter Regler) auf «pre fader» (PF, vor Regler) mit der gelben PF/PREP-Taste. Am Drehgeber wird der AUX SEND-Pegel eingestellt, das Display zeigt den Pegel in dB an.

GAIN

Nach Wahl von GAIN im Feld IN STRIP CONTROL übernimmt das obere Bedienfeld aller Faderblökke die GAIN-Funktionen.

Der Drehgeber

- beeinflusst die Verstärkung des Mikrofon-Vorverstärkers, falls vorhanden; Anzeige im Display oberhalb davon (der interne Gain Trim wird auf 0 dB gesetzt).
- beeinflusst den internen (digitalen) Gain Trim, wenn kein Vorverstärker vorhanden ist.

BALANCE

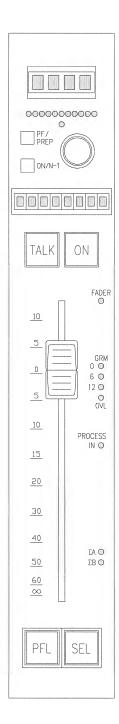
Nach Wahl von BALANCE im Feld IN STRIP CONTROL übernimmt das obere Bedienfeld aller Faderblöcke die BALANCE-Funktionen.

Bei ausgeschalteter Taste ON leuchtet die grüne, zentral angeordnete LED. Bei eingeschalteter Taste ON (grün) wird mit dem Drehgeber die Richtungsabbildung der Quelle verschoben. Die grüne LED erlischt. Die rote LED-Kette zeigt immer, auch bei ausgeschalteter Balance, die virtuelle Abbildungsposition zwischen L(inks) und R(echts) an. Damit ist eine Voreinstellung der Position auch bei ausgeschalteter Funktion möglich.

DISPLAY VALUE

Diese Taste im Feld IN STRIP CONTROL schaltet die Anzeige des vierstelligen Displays auf dem Faderblock um.

Im Normalfall zeigen die Displays die «In Strip Control Labels», wie sie im Layout des Faderblocks aufgeführt sind. Mit aktivierter Taste DISPLAY VALUE werden bei allen Kanälen die effektiv eingestellten Werte angezeigt.



3.2 Achtstelliges Display

Zeigt das Label der angeschlossenen Quelle an. Wird einer Eingangsleitung ein Quellenlabel zugeordnet (z.B. SC BERN), so wird dieses anstelle der Nummer der Eingangsleitung (EL 2) angezeigt.

3.3 Select / ON Tasten SELECT

Die SELECT-Taste schaltet die zentrale Bedieneinheit auf den entsprechenden Eingangszug.

ON

Erlaubt das knacksfreie Ein- und Ausschalten des Kanalzugs bei geöffnetem Regler. Löst den Faderstart aus, sofern der Regler geöffnet ist.

3.4 Fader und Anzeige-LEDs

Der Fader dient zur Pegeleinstellung des Kanals. Der integrierte Endschalter dient, zusammen mit der ON-Taste, zum Starten und Stoppen von fernsteuerbaren Quellen. Ein geöffneter Endschalter aktiviert die grüne FADER-LED.

GRM- und OVL-LEDs

Bei eingeschaltetem Limiter oder Kompressor zeigen die drei gelben GRM-LEDs die Verstärkungsreduktion an (Gain Reduction Meter). Wird der intern zulässige Pegel überschritten, leuchtet die rote OVL-LED (Overload) auf. Gleichzeitig wird auch die im zentralen Bedienteil untergebrachte Overload-Anzeige aktiviert.

PROCESS IN

Signalisiert einen eingeschleiften Prozessorblock, der sich auf das Audiosignal auswirkt (z.B. Filter, Equalizer, Delay usw.).

$\Sigma A / \Sigma B$ -LEDs

zeigen den gewählten Summenausgang an.

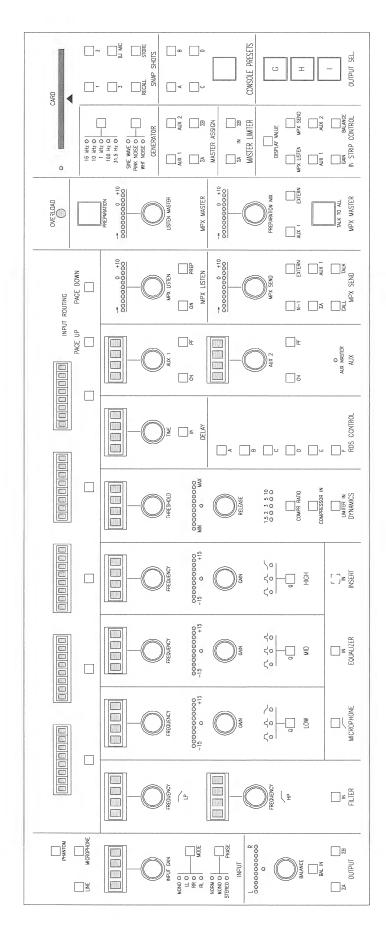
3.5 PFL- und Talk-Tasten

Vorhörtaste. Das PFL-Signal wird unterbrochen, sobald der Audioweg durchgeschaltet ist (konfigurierbar).

TALK

Zur Kommandogabe auf den MPX SEND-Ausgang. Rufsignale (1900 Hz) vom Teilnehmer werden durch die LED in der Taste und einen Summer signalisiert. Beides bleibt aktiv, bis die zugehörige TALK-Taste betätigt wird.

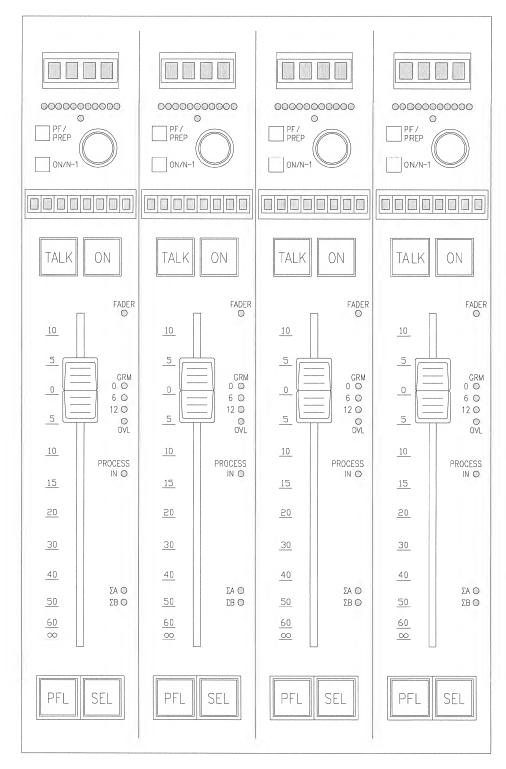
Zentrale Bedieneinheit:



IN STRIPS LABELS:

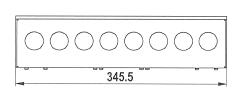
GAIN	BAL	AUX 1	AUX 2	MPXS	MPXL
Mic Gain	Balance	Aux 1 Gain	Aux 2 Gain	Multiplex send	Multiplex listen
Line Gain					
Digital Trim					

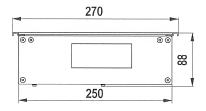
Faderblock:

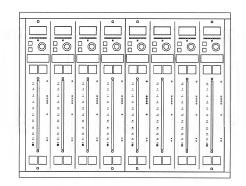


Abmessungen (in mm):

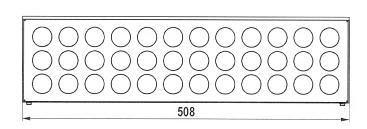
Einbaurahmen für zwei Fader-Module mit je vier Fadern (oder für ein Fader-Modul und weitere Einheiten, z.B. Fernsteuerung):

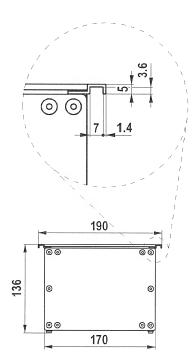




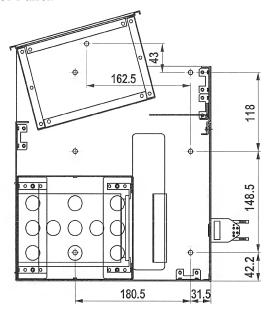


Einbaurahmen für Pegelmesser-Module:





Zentraler Bedienteil und Monitor-Panel:



508	508

Digital Mixing System for Broadcast and Production

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Introduction

The advent of DAB (Digital Audio Broadcasting), the transition from analog to digital interconnections between studios and transmitter sites, and the rise of digital audio storage media mean that today's broadcasters need an easy-to-use, flexible and ergonomic mixing console solution with fully-digital audio and data processing.

A user-friendly mixing console is also invaluable for producing actuality, features, and prerecording combined speech and music programme material.

With its great flexibility and clear functional layout, the new On-Air 5000 mixing console fits the bill for both tasks. Whoever is sitting at the controls – disk jockey, sports reporter, newsreader, broadcast recording engineer – a personal "chip card" configures the console to each user's special needs in a fraction of a second.

The console was designed with a strong emphasis on communication with the outside world: sports reporters, telephone and studio discussions, election results, etc. The console features up to 16 return feeds. Two separate multiplex levels allow a clean-feed to every broadcast participant, while people waiting to go on-air can talk with the programme producer via a second conference level.

EBU-compliant calling tones and incoming call sensors (1900 Hz), plus automatic switching between conference levels when a fader is opened make it easier to communicate with outside sources.

A client/server architecture, with the "Active VMC" (Virtual Mixing Console) as the server, makes for a highly customisable console. Signal processing uses the same DSP core found in the D950 digital console and in the MADI router. This state-of-the-art technology sets new standards of flexibility and sonic quality.

The console is comprised of four functional units with control surfaces and displays. Being mechanically separate, modules may be built-in to a presentation suite using the customer's preferred arrangement, or whatever best matches the studio design.

I.I Fader Block

- Maximum 32 linear faders organised in blocks of four, which may be arranged in any desired groups of 8 or 16 each on either side of a central script area, or conventionally in a continuous row.
- One assignable rotary encoder, two keys and a four-character display per channel.
- 8-character alphanumeric source display.
- Separate PFL, ON, SELECT and TALKBACK keys per channel.

1.2 Central Control Unit

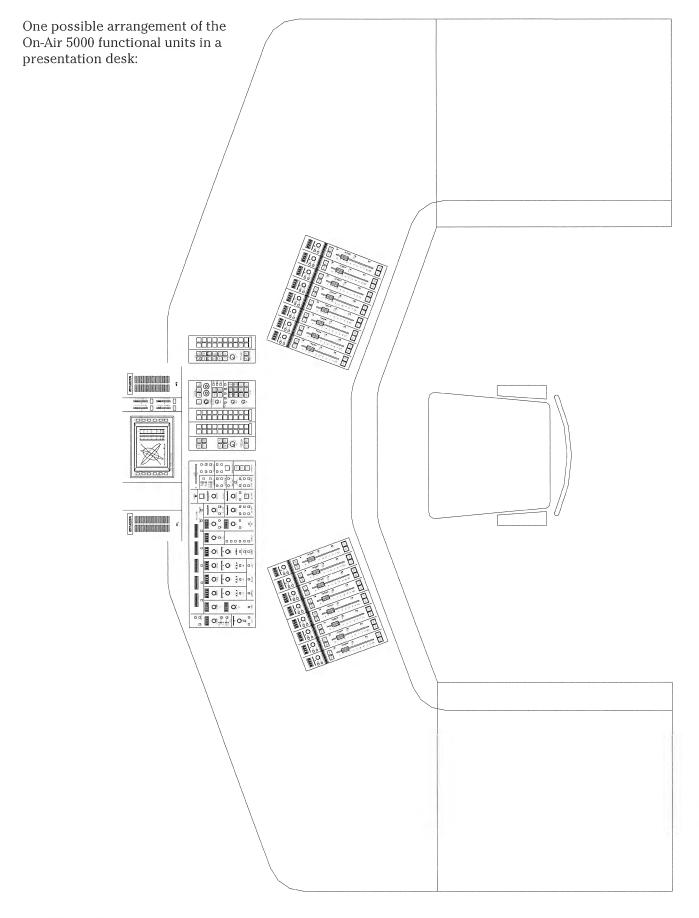
- Each channel's SELECT key accesses the central control unit, where gain, filters, EQ, compressor, limiter, and auxiliary outputs can be individually adjusted.
- Basic console setup keys; user-specific settings are saved on a "chip card".
- Input matrix control and function assignment for the channel-strip rotary encoders and keys takes place here.
- N-1 clean-feeds send a return signal to every source. External participants can talk amongst themselves and with the studio presenter during preparation and discussion pauses, without disturbing the broadcast programme.

1.3 Monitoring and Meter Bridge

The monitor area and meter bridge are fitted to customer specifications using standard Studer console modules. Additional lamp and key clusters for remote control, signalling and commands can also be integrated here.

1.4 System Integration

Converters and digital processing units are housed in a 19-inch rack with facilities for direct connection to a switching centre via optical MADI links. Combined with a MADI router in the main switching centre, this provides an extremely flexible, cost-effective and future-proof solution.



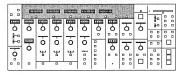
2 Functional Description: Central Control Unit

The central control unit has two main areas. The nine-units wide area to the left controls an input channel, i.e. it is *channel-oriented*. Pressing a fader strip's SELECT key allows channel adjustments to be made on the central control unit.

The right hand area of the central control unit handles higher-level functions, i.e. it is *console-oriented*. This area manages bus control, general console settings, and ancillary functions like the test tone generator.

2.1 Central Control Unit, Channel-Oriented Area

2.1.1 INPUT ROUTING



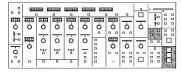
Five 8-character displays label a group of sources connected to the console either directly, or via the MADI router.

The PAGE UP and PAGE DOWN keys scroll through the groups. Pressing the key below the display assigns the displayed source to the selected input channel. The selected source's label then also appears in the channel strip display above the fader.

Any previously assigned source is automatically disconnected and replaced by the new one.

It is possible to route the same source to two input channels in parallel. Source control (e.g. microphone preamplifier gain and phantom power) may then be effected from either channel. Fader start activates when at least one of the input channels is opened.

2.1.2 OUTPUT ROUTING

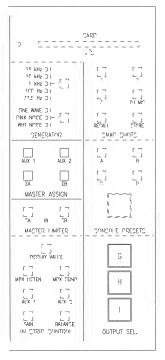


All outputs are configurable via the console computer's graphical interface.

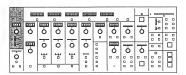
MPX SEND outputs are assigned to input channels. Selecting the channel strip input automatically switches the corresponding multiplex output. Here too, basic configuration can be made via the console computer's graphical interface.

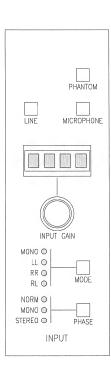
The three OUTPUT SEL G/H/I keys and the MASTER ASSIGN keys in the console-oriented area of the central control unit allow three outputs and (optionally) master and AUX channels to be sent to the displayed outputs via the console's routing matrix.

Each output may be routed to any desired number of output lines. A second output cannot be routed to a previously selected output line. However, doing this clears the previous routing configuration.



	INPUT	ROUTING
	PAGE UP	PAGE DOWN





2.1.3 Input

The input field groups together the functions associated with a channel strip input section. Input channels always operate as stereo pairs; mono signals are routed in parallel to the left and right channels. Default settings are <u>underlined</u> in the following text.

GAIN

The INPUT GAIN rotary encoder

- Adjusts the microphone preamplifier gain, if mic preamps are installed. The setting appears in the display above (internal gain trim is set to 0 dB).
- Adjusts the internal (digital) gain trim, if there is no preamplifier.

PHANTOM

Switches microphone phantom power <u>on</u> and off (if a microphone preamplifier is present).

MIC, LINE

<u>MIC</u>/LINE selection (if a microphone preamplifier is present).

MODE

Controls assignment of the stereo input pair. Five options may be selected in sequence:

- **NORM** (left input to left output, right input to right output): no display, i.e. all LEDs are dark.
- MONO (left and right inputs are summed and switched to both outputs): red LED
- LL (L input to both outputs): red LED.
- **RR** (R input to both outputs): red LED.
- **RL** (R input to L output, L input to R output): red LED.

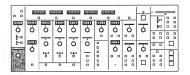
The key illuminates when the mode is anything other than NORM.

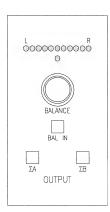
PHASE

There are three options:

- NORM no phase inversion: green LED
- MONO L and R phase inverted: red LED
- STEREO L phase inverted: red LED

Pressing the PHASE key cycles through the three options. The key illuminates when the mode is anything other than NORM.





2.1.4 Output

All functions related to the main output and the input channel bus selection are controlled from here.

BALANCE

Rotary encoder, display and key.

- The green, central LED illuminates when the BAL IN key is "off".
- The BALANCE rotary encoder positions the source on the stereo soundstage when the BAL IN key is "on" (illuminated red). The green LED is dark.
- The red LED bargraph always indicates the virtual position of the source between L(eft) and R(ight), even when the BAL IN key is switched "off". This allows source pre-panning even while the balance function is disabled.

Range for mono sources (for mono sources, this control is used as PAN function):

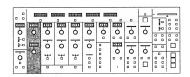
3 dB attenuation of both channels in the mid position, 0 dB or ∞ attenuation of one or the other channel, respectively, at either extreme.

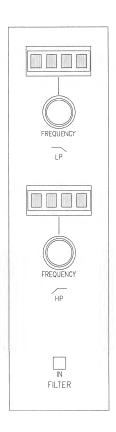
Range for stereo sources:

0 dB attenuation of both channels in the center position, +3 dB gain of one, ∞ attenuation of the other channel at either extreme.

$\Sigma \mathbf{A}$ and $\Sigma \mathbf{B}$

Output selectors for stereo master bus A and/or stereo master bus B.



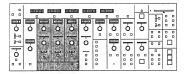


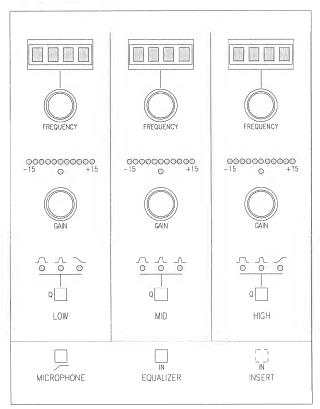
2.1.5 Low- and High-Pass Filters

FILTER IN

Master enable/disable for both filters.

- Low-pass filter: 12 dB/octave rolloff, 62-step cutoff frequency adjustment from 500 Hz to 16 kHz in 1/12-octave increments. The frequency setting appears in the four-digit display.
- High-pass filter: 12 dB/octave rolloff, 62-step cutoff frequency adjustment from 31 Hz to 1 kHz in 1/12-octave increments. The frequency setting appears in the four-digit display.





2.1.6 Equalizer

Three-band equalizer with adjustable boost/cut from -15 to +15 dB. The set frequency appears on a four-digit display, a horizontal LED bargraph indicates boost/cut. The central green LED illuminates to indicate the flat position (0 dB).

EQUALIZER IN

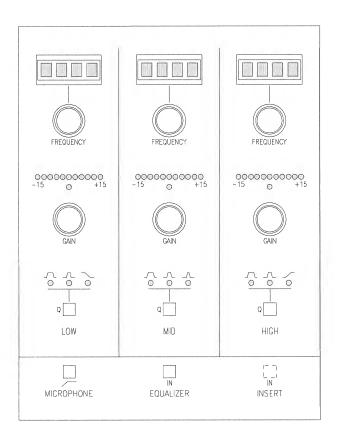
Equalizer enable/disable key.

LOW

The Q key selects the filter characteristic: peaking, Q = 0.4 or 1, or shelving. 62-step centre/turnover FREQUENCY adjustment from 31 Hz to 1 kHz in 1/12-octave increments; the GAIN rotary encoder controls the boost/cut setting.

MID

The Q key selects the filter characteristic: Q = 0.4, 1 or 2. 62-step centre frequency adjustment from 200 Hz to 6.1 kHz in 1/12-octave increments; the GAIN rotary encoder controls the boost/cut setting.



HIGH

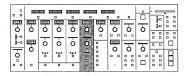
The Q key selects the filter characteristic: peaking, Q = 0.4 or 1, or shelving. 62-step centre/turnover FREQUENCY adjustment from 500 Hz to 16 kHz in 1/12-octave increments; the GAIN rotary encoder controls the boost/cut setting.

/ MICROPHONE

This key remotely controls the microphone preamplifier's analog subsonic filter (cutoff frequency 75 Hz, 12 dB/octave rolloff). (Effective only if there is a microphone preamplifier.)

2.1.7 Insert (Option)

Input channels may include a pre-EQ insert point, if desired. The INSERT IN key (at the bottom right of the EQUALIZER area) activates this feature.





2.1.8 Dynamics

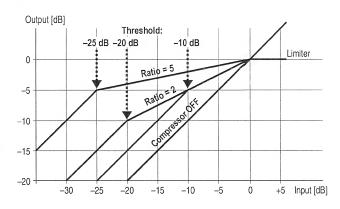
LIMITER / COMPRESSOR IN

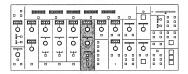
Separate keys switch the compressor and limiter sections on and off.

THRESHOLD

Rotary encoder for adjusting compressor gain and knee (threshold) as a function of the compression ration; adjustment range –48 dB to 0 dB in 1 dB increments.

The compression ratio may be set to 1.5, 2, 3, 5 and 10 using the COMPR. RATIO key.





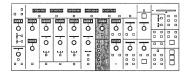


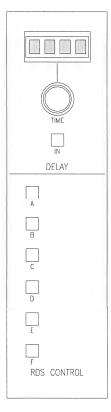
RELEASE

Rotary encoder for adjusting the compressor release time, adjustable from 100 ms to 3 s.

LIMITER

The limiter cut-in point is fixed in the configuration file according to the specified headroom (adjustment range: $-6~dB_{\rm FS}$ to $-20~dB_{\rm FS}$). The release time may also be configured from 1 to 5 s. Hold time: 16.6~ms





2.1.9 Delay / RDS Control

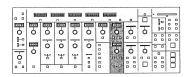
DELAY

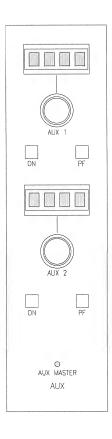
Variable signal delay from 1 sample to 240 ms. The DELAY IN key activates the delay, while the TIME rotary encoder adjusts the delay time, which is displayed in samples from 1 to 47 samples, and from 1 ms to 240 ms thereafter.

RDS CONTROL

The six keys labelled A to F (illuminated yellow) allow the selected input channel to be assigned an RDS identification (e.g. music, news, traffic announcement, etc.). This identification is added outside the console as an identification bit in the digital transmission signal, when the corresponding channel goes on-air.

The On-Air 5000 console provides a separate output with 6 logical signals for controlling the RDS coder.





2.1.10 AUX

There are two stereo auxiliary channels, AUX 1 and AUX 2.

AUX I / 2 ON

The green ON key activates the AUX channel.

PF

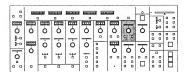
The yellow PF key switches the corresponding AUX tap point from after-fader to pre-fader.

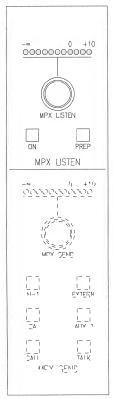
AUX I/2

Rotary encoder for adjusting the AUX send level, displayed in dB.

AUX MASTER

This rotary encoder adjusts the AUX output level of the AUX section selected by MASTER ASSIGN AUX 1 or AUX 2. The red AUX MASTER LED lights in this mode.





2.1.11 MPX LISTEN

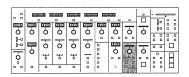
MPX LISTEN / ON

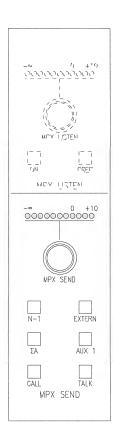
Switches the input channel's pre-fader signal to the MPX LISTEN loudspeaker. The MPX LISTEN rotary encoder adjusts the monitoring level, which is displayed on the corresponding LED bargraph. The MPX listen output is muted when the channel goes on-air (fader open, bus selected, ON key pressed).

MPX LISTEN / PREP

The PREP key readies the channel for preparation or rehearsal mode on pressing the MASTER PREPARATION key (see MPX MASTER field).

PREP mode establishes a pre-fader mix of all channels switched to PREP, which is returned to MPX participants minus their own contribution (N-1, clean-feed). This allows all participants to hear and discuss with each other during the preparation phase or between broadcasts, without affecting live transmission.





When one of them goes on-air, this channel exits PREP mode and returns to normal MPX mode. The participant's return channel now carries the source selected by MPX SEND instead of the other, off-air participants.

2.1.12 MPX SEND

The four keys N–1, EXTERN, ΣA , AUX 1 select separate return signals for each participant. The return signal level may be adjusted using the MPX SEND rotary encoder. Level is displayed on the corresponding LED bargraph.

N-I

Transmission signal (ΣA) excluding the participant's own contribution.

ΣΑ

Transmission signal including the participant's own contribution.

AUX I

The mix appearing on the AUX 1 auxiliary channel.

EXTERN

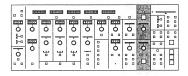
Any source connected to the patch panel (usually off-air reception of the current broadcast programme).

CALL

The CALL key applies a 1900 Hz call signal to the SEND output.

TALK

The TALK key operates in parallel with the TALK key in the corresponding channel's fader strip, and is used for issuing instructions to the selected SEND output. An LED in the key and a buzzer indicate incoming 1900 Hz call signals from participants. LED and buzzer remain active until the corresponding TALK key is pressed.





2.2 Central Control Unit, Console-Oriented Area

2.2.1 MPX MASTER

PREPARATION

This key places all channels preselected with MPX LISTEN PREP (see above) in preparation or rehearsal mode. This establishes a group of participants who can discuss independently of the live broadcast.

LISTEN MASTER

This rotary encoder adjusts the sum level of all channels switched to MPX LISTEN. Level is displayed on the corresponding LED bargraph.

PREPARATION MIX

Either the live broadcast or an external source can be mixed with the PREPARATION group described above. The PREPARATION rotary encoder adjusts the level, which is displayed on the corresponding LED bargraph.

The following sources can be selected with the two keys:

AUX I

The mix appearing on the AUX 1 auxiliary channel.

EXTERN

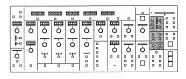
Any source connected to the patch panel (usually off-air reception of the current broadcast programme).

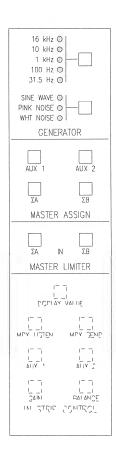
TALK TO ALL

This key addresses all MPX SEND channels simultaneously.

2.2.2 OVERLOAD

The red OVERLOAD LED illuminates when a fixed alarm threshold is exceeded anywhere within the console.





2.2.3 GENERATOR

MODE

The lower key switches between white and pink noise, or a sine-wave signal.

SINE WAVE

The upper key selects the frequency in SINE WAVE mode.

The following frequencies are available: 16 kHz, 10 kHz, 1 kHz, 100 Hz and 31.5 Hz.

2.2.4 MASTER ASSIGN

The four MASTER ASSIGN keys switch the channel-oriented area of the central control unit to MASTER channels. If configured (customerspecific), it is possible to adjust the master output level at both AUX rotary encoders, insert equalizers, and set up the desired destinations via the routing selector.

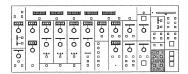
The AUX 1 and AUX 2 rotary encoders become the main controls for AUX 1 and AUX 2 (the AUX MASTER LED illuminates, see the AUX paragraph above), and OUTPUT ROUTING is enabled.

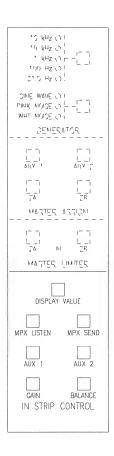
Only OUTPUT ROUTING is enabled for ΣA and ΣB .

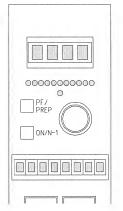
2.2.5 MASTER LIMITER

ΣA IN, ΣB IN

These keys enable/disable the permanently assigned limiters in the A and B master outputs. Red LEDs in the keys indicate that the limiter is enabled.







2.2.6 In Strip Control

The IN STRIP CONTROL keys delegate certain control functions from the central control unit to the upper portion of the fader strips. The rotary encoder, two keys and the associated four-character display in each input channel are assigned the following functions:

MPX LISTEN

Assigns the MPX LISTEN functions to the upper portion of all fader strips (see figure below).

The ON key switches the input channel's prefader signal to the MPX LISTEN loudspeaker. The rotary encoder adjusts the monitoring level, which is displayed on the LED bargraph immediately above. The PF/PREP key readies the appropriate channel for switching to preparation/rehearsal mode when the PREPARATION key in the MPX MASTER area is pressed.

When a channel strip goes on-air (fader open, master bus selected, ON key pressed), the MPX LISTEN output mutes and the PREP mode is cancelled.

MPX SEND

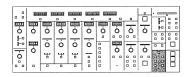
Assigns the MPX SEND functions to the upper portion of all fader strips.

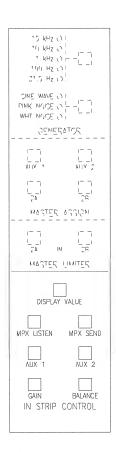
The rotary encoder adjusts the MPX SEND level, which is displayed on the LED bargraph immediately above. Pressing the ON key switches the return output to N–1. There is no function assigned to the PF/PREP key.

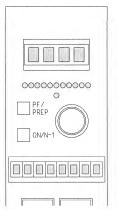
AUX I / AUX 2

Assigns the AUX 1 and AUX 2 functions to the portion of all fader strips.

The green ON key activates the AUX channel. The yellow PF/PREP key switches the corresponding AUX tap point from after-fader to pre-fader. The rotary encoder adjusts the AUX SEND level, which is displayed in dB.







GAIN

Assigns the INPUT GAIN functions to the upper portion of all fader strips.

The rotary encoder

- adjusts the microphone preamplifier gain, if present. The gain setting appears in the display above (internal gain trim is set to 0 dB).
- adjusts the internal (digital) gain trim, when there is no preamplifier available.

BALANCE

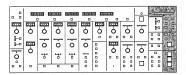
Assigns the BALANCE functions to the upper portion of all fader strips.

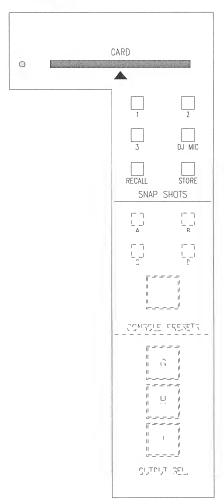
The green central LED illuminates when the ON key is switched off. When the ON key is switched on (green), the rotary encoder positions the source on the stereo soundstage and the green LED extinguishes. The red LED bargraph always indicates the virtual position of the source between L(eft) and R(ight). This allows source prepanning even while the balance function is disabled.

DISPLAY VALUE

This key switches the four-character fader strip displays over to indicate the current settings.

Normally, these display the "in strip control labels", as they appear in the fader strip layout. Activating the DISPLAY VALUE key reveals the values currently set in all channels.





2.2.7 CONSOLE PRESETS

The CONSOLE PRESETS area is subdivided into an upper area that users can access individually, and a lower area with fixed functions.

CARD

The slot labelled CARD accepts a personal identification card. This works like a key, giving access to the snapshot memories stored using this key. Saved data may or may not be modified, depending on the card type.

An empty card slot enables a memory area that is freely accessible to all users. From here, users can recall the first four console setups via the SNAP SHOTS keys.

SNAP SHOTS

This area comprises four yellow SET keys, a green RECALL key, and a red STORE key.

SNAP SHOTS / DJ MIC

This key affects only the DJ microphone channel, by setting all its channel parameters to the current user's stored values. This allows individual gain, equalizer and filter settings to be assigned for each cardholder.

SNAP SHOTS / 1, 2, 3

These keys allow the cardholder to recall three complete console setups (snaphsots), and save them if authorised to do so.

SNAP SHOTS / RECALL

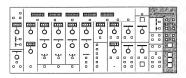
Preparation key to set one of the states described above.

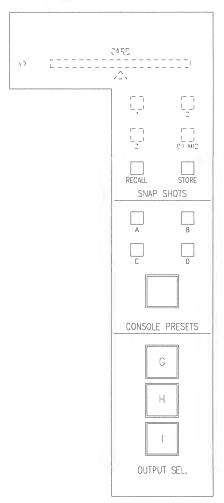
Operating example:

SNAP SHOTS / **RECALL** (RECALL key lights up green),

SNAP SHOTS / 1; a double-click recalls snapshot no. 1, the previously selected CONSOLE PRESETS key extinguishes, and the SNAP SHOTS / 1 key illuminates.

This sets all console parameters to new values.





SNAP SHOTS / STORE

Preparation key to save the current console state.

Operation is similar to the RECALL procedure, i.e.:

SNAP SHOTS / **STORE** (red STORE key illuminates).

SNAP SHOTS / 1; double-click to start the save procedure; any previously selected CONSOLE PRESETS key extinguishes; the SNAP SHOTS / RECALL key illuminates.

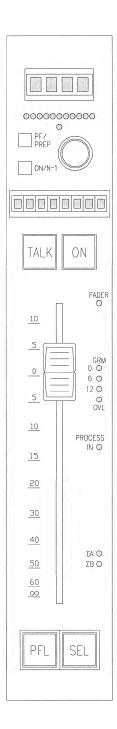
The current console status is now stored in the cardholder's memory area "1".

CONSOLE PRESETS (lower area)

The five yellow keys recall fixed console states (presets) that are accessible by all users (even without an ID card). These presets can only be modified by the supervisor, using the master card.

OUTPUT SEL.

The G, H and I keys may be used in conjunction with a broadcast automation system, or configured to allow OUTPUT ROUTING of three lines.



3 Functional Description: Fader Block

A fader block incorporates controls for four input channels. Two to four blocks may be installed, depending on the size of the console. This represents 8 to 32 simultaneously operable input channels.

3.1 Upper Area

The upper area of each fader strip features one rotary encoder, two keys and a four-character display. The functions of these elements are assigned by the keys in the IN STRIP CONTROL area of the central control unit.

MPX LISTEN

Selecting MPX LISTEN in the IN STRIP CONTROL area assigns MPX LISTEN functions to the upper portion of all fader strips.

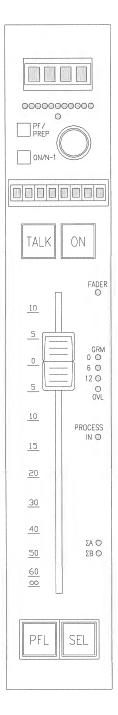
The ON key switches the input channel's prefader signal to the MPX LISTEN loudspeaker. The rotary encoder adjusts the monitor level, which is displayed on the LED bargraph immediately above. The PF/PREP key readies the channel for switching to preparation/rehearsal mode when the PREPARATION key in the MPX MASTER area is pressed.

When a channel strip goes on-air (fader open, master bus selected, ON key pressed), the MPX LISTEN output is muted and the PREP mode is canceled.

MPX SEND

Selecting MPX SEND in the IN STRIP CONTROL area assigns MPX SEND functions to the upper portion of all fader strips.

The rotary encoder adjusts the MPX SEND level, which is displayed on the LED bargraph immediately above. Pressing the ON key switches the return output to N-1. There is no function assigned to the PF/PREP key.



AUX I / AUX 2

Selecting AUX 1 or AUX 2 in the IN STRIP CONTROL area assigns AUX 1 or AUX 2 functions to the upper portion of all fader strips.

The green ON key activates the AUX channel. The yellow PF/PREP key switches the corresponding AUX tap point from after-fader to pre-fader. The rotary encoder adjusts the AUX SEND level, which is displayed in dB.

GAIN

Selecting GAIN in the IN STRIP CONTROL area assigns GAIN functions to the upper portion of all fader strips.

The rotary encoder

- adjusts the microphone preamplifier gain, if applicable. The gain setting appears in the display above (internal gain trim is set to 0 dB).
- adjusts the internal (digital) gain trim, when there is no preamplifier.

BALANCE

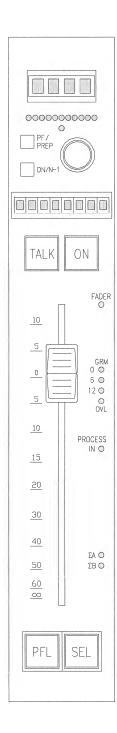
Selecting BALANCE in the IN STRIP CONTROL area assigns BALANCE functions to the upper portion of all fader strips.

The green central LED lights up when the ON key is switched off. When the ON key is switched on (green), the rotary encoder positions the source on the stereo soundstage and the green LED extinguishes. The red LED bargraph always indicates the virtual position of the source between L(eft) and R(ight). This allows source pre-panning even while the balance function is disabled.

DISPLAY VALUE

This key switches the contents of the four-character fader strip displays to indicate the current settings.

Normally, these display the "in strip control labels", as they appear in the fader strip layout. Activating the DISPLAY VALUE key reveals the values currently in effect for all channels.



3.2 Eight-Character Display

Displays the label of the connected source. Should a source label be assigned to an input line (e.g. SC BERN), this label is displayed in place of the input line number (e.g. EL 2).

3.3 Select / ON Keys SELECT

The SELECT key switches the central control unit to the corresponding input channel strip.

ON

Facilitates click-free channel strip switching while the fader is open. Triggers fader start, provided the fader is open.

3.4 Fader and Display LEDs

The fader adjusts the channel level. An integrated end-switch, together with the ON key, serves to start and stop remote-controllable sources. An open end-switch activates the green FADER LED.

GRM and OVL LEDs

The group of three yellow GRM (Gain Reduction Meter) LEDs shows the amount of gain reduction contributed by the limiter or compressor. The red OVL (overload) LED illuminates should the maximum permissible internal level be exceeded. The overload display in the central control unit activates simultaneously.

PROCESS IN

Indicates that a signal processing unit is inserted and modifying the audio signal (e.g. filters, equalizer, delay, etc.).

$\Sigma A / \Sigma B LEDs$

Indicate the selected master output.

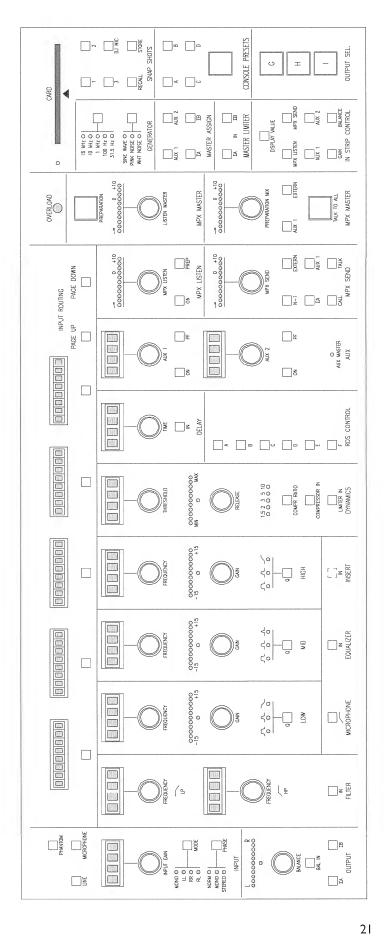
3.5 PFL and Talk Keys

Pre-fader listening key. The PFL signal is interrupted as soon as audio is actually routed through (configurable).

TALK

For issuing instructions to the selected MPX SEND output. An LED in the key and a buzzer indicate incoming 1900 Hz call signals from participants. The LED and buzzer remain active until the corresponding TALK key is pressed.

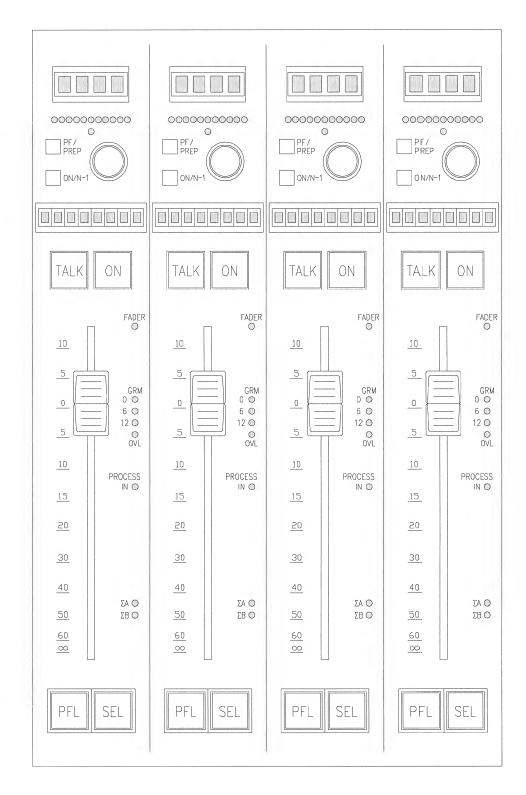
Central Control Unit:



IN STRIPS LABELS:

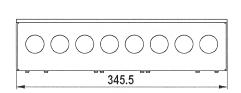
GAIN	BAL	AUX 1	AUX 2	MPXS	MPXL
Mic Gain Line Gain Digital Trim	Balance	Aux 1 Gain	Aux 2 Gain	Multiplex send	Multiplex listen

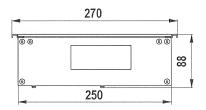
Fader Block:

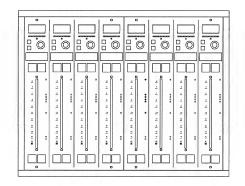


Dimensions (in mm):

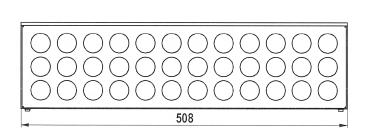
Frame for two Fader Modules with four faders each (or one Fader Module and other modules, e.g. Remote Control units):

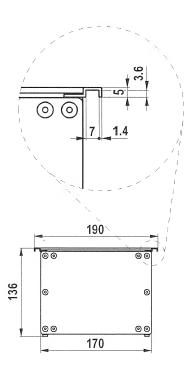




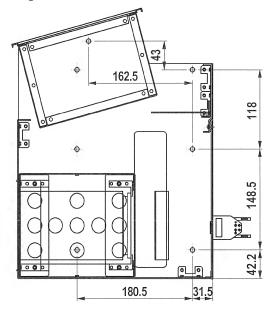


Frame for level meter bridge:





Central Control Unit and Monitoring Unit:



508	508

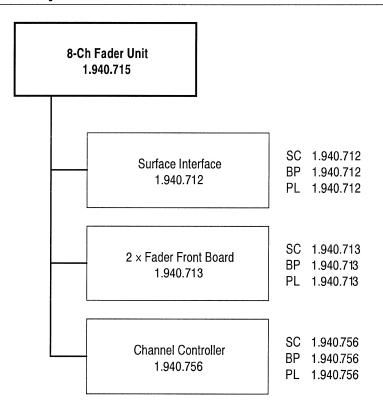
CIRCUIT DIAGRAMS SECTION 3

Fader Panel Units

8-Channel Fader Unit	1.940.715
4-Channel Fader Unit	1.940.720
Surface Interface	1.940.712
Fader Front Board	1.940.713
Channel Controller	1 940 756

8-Channel Fader Unit, Components

1.940.715

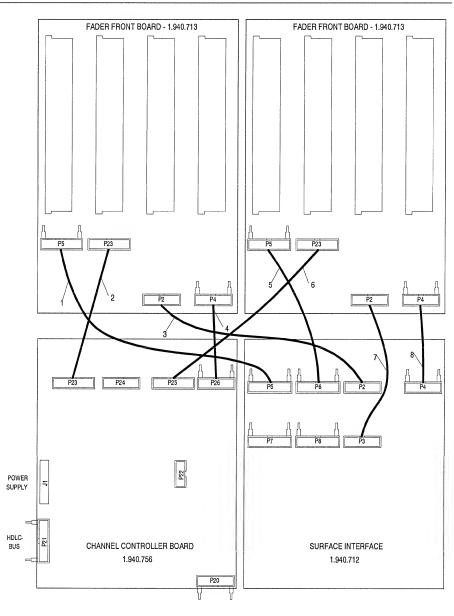


SC: Circuit Diagram **BP:** Component Placement Diagram

PL: Parts List

8-Channel Fader Unit, Wiring

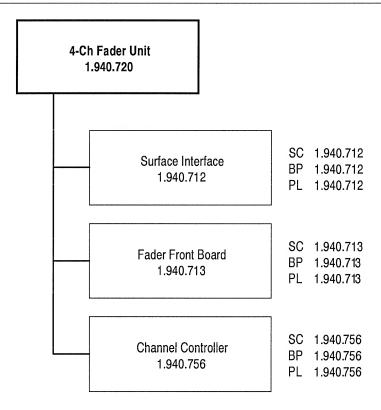
1.940.715



No.	Order no.	Cable	Length
1	1.023.102-22	30 p	25 cm + 2
2	1.023.404-01	HD40 p	14 cm
3	1.023.403-02	HD34 p	22 cm + 2
4	1.023.101-21	16 p	10 cm
5	1.023.102-20	20 p	14 cm + 2
6	1.023.404-02	HD40 p	19 cm + 3
7	1.023.403-01	HD34 p	12 cm
8	1.023.101-21	16 p	10 cm

4-Channel Fader Unit, Components

1.940.720



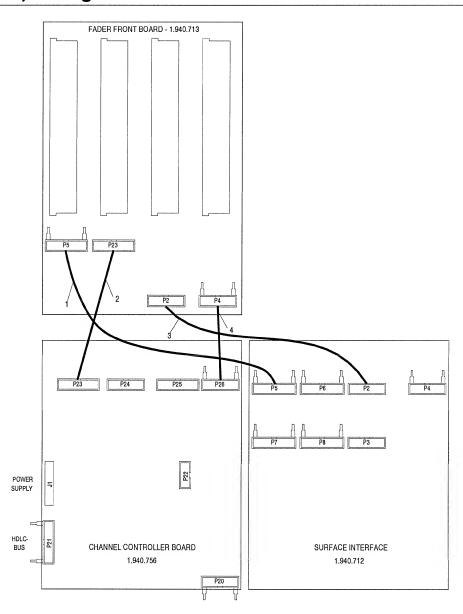
SC: Circuit Diagram

BP: Component Placement Diagram

PL: Parts List

4-Channel Fader Unit, Wiring

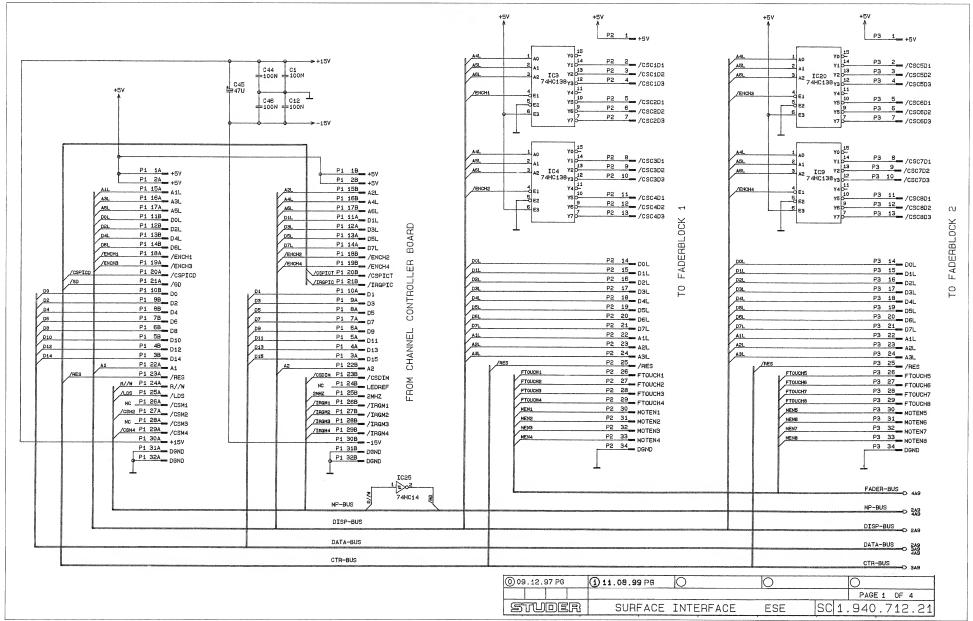
1.940.720



No.	Order no.	Cable	Length
1	1.023.102-22	30 p	25 cm + 2
2	1.023.404-01	HD 40 p	14 cm
3	1.023.403-02	HD 34 p	22 cm + 2
4	1.023.101-21	16 p	10 cm

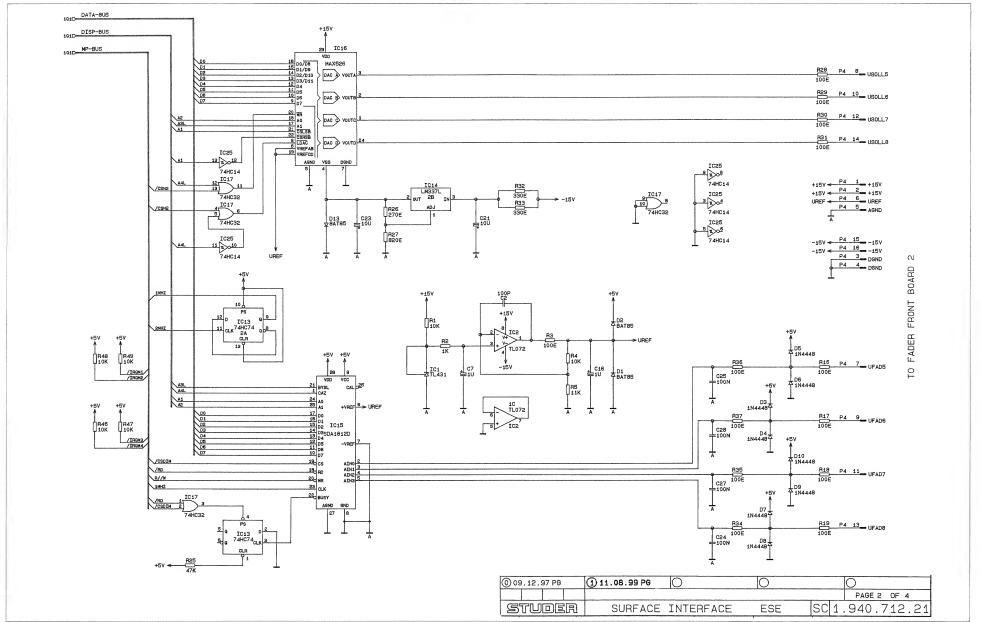
Surface Interface 1.940.712.21





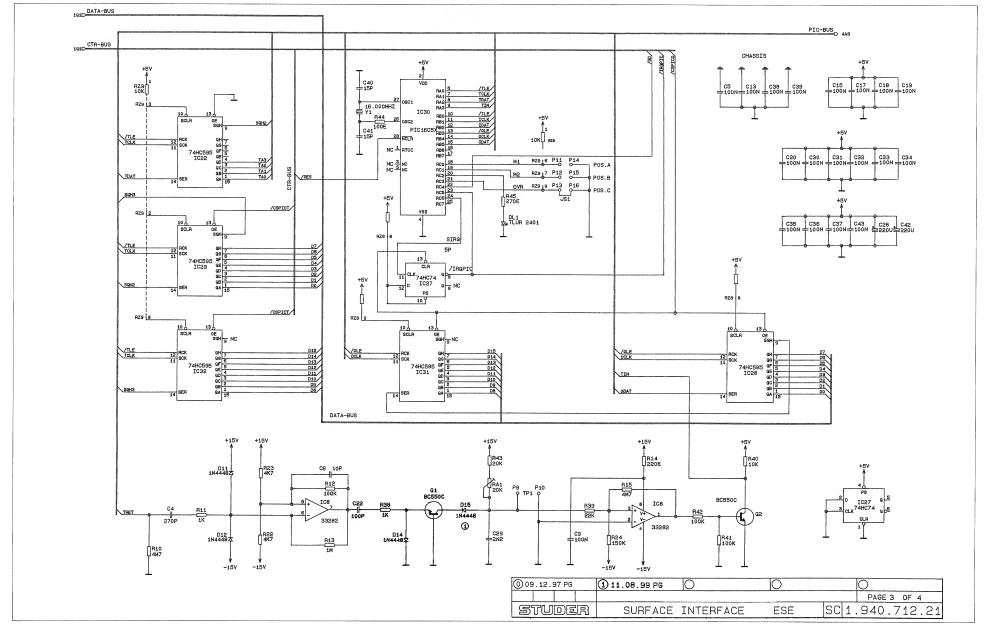


Surface Interface 1.940.712.21



Surface Interface 1.940.712.21

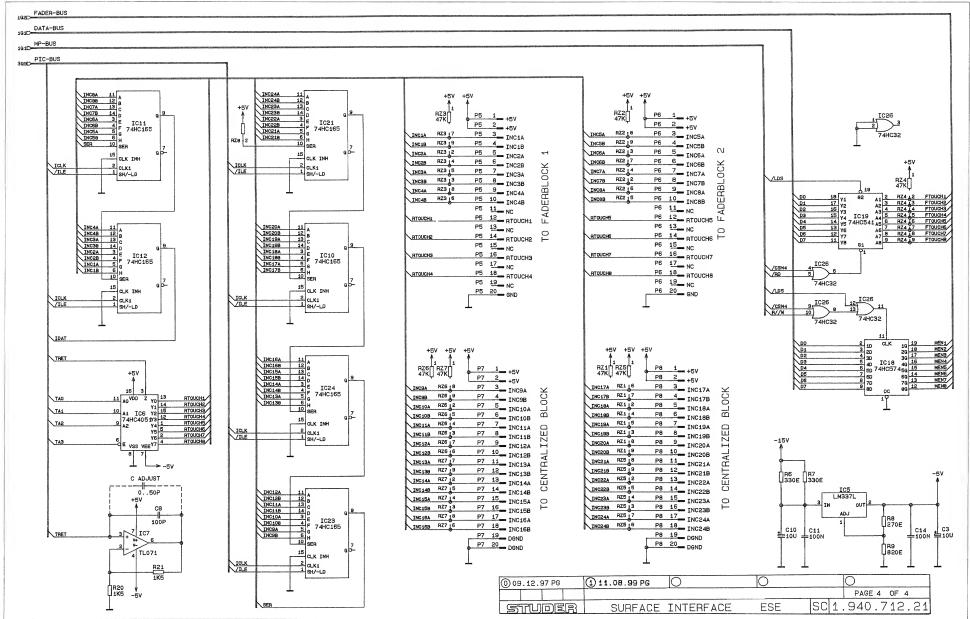




STUDER







Surface Interface 1.940.712.21 P5 Ρ2 - MP1 C17 IC9 C26 Z Icii C24 C25 C27 C28 IC10 IC12 (IC14) IC13 P8 РЗ C30 IC15 C32 C33 C34 IC17 IC25 Yı ©40 ©41 C43 MP7 ① D 15 ① 日 \Box \boxtimes \boxtimes P1 ① 11.08.99 P6 // //N ② 09.12.97 P6 //N IND. DATUM SEZ. SEPR. SES. STUDER SURFACE INTERFACE ESE 1.940.712.21

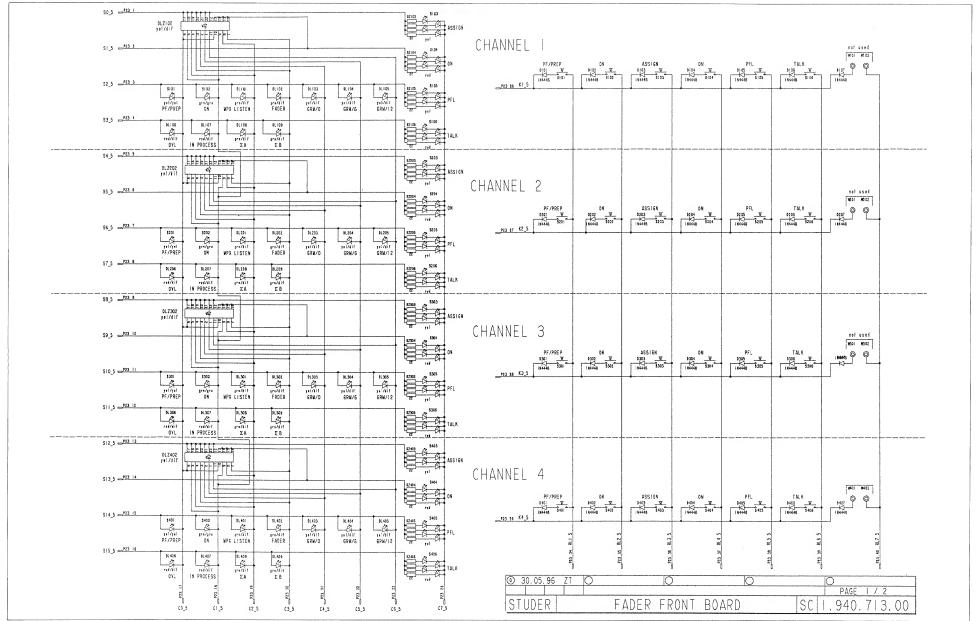


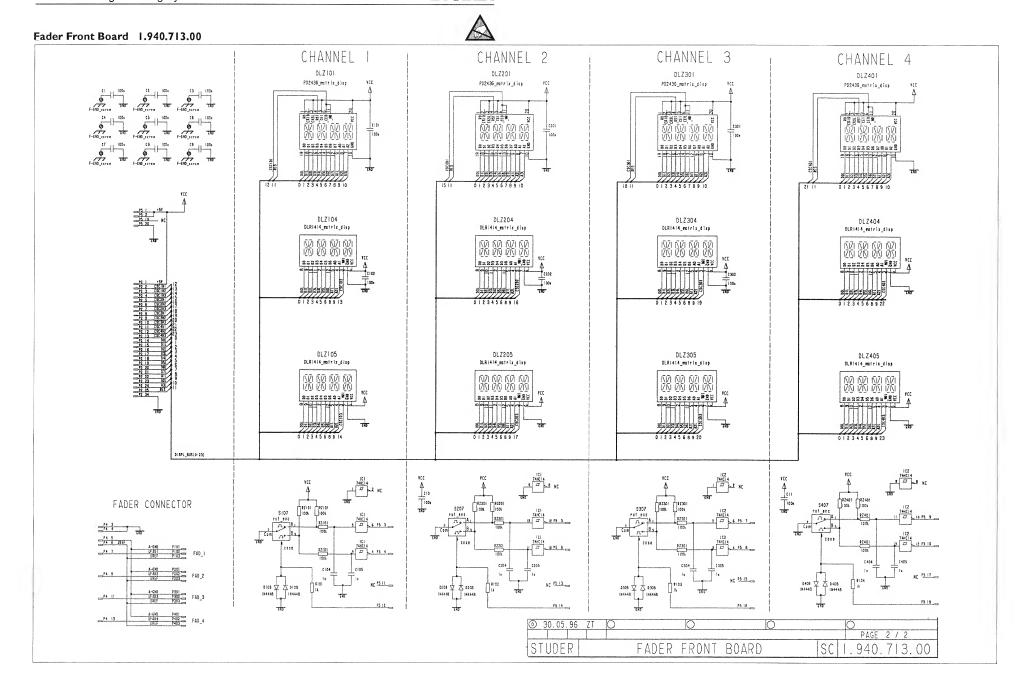
urfac	e Interfa	ce I	.940.	712.21											
ldx. Pos.	Part No.	Qty. Ty	pe/Val.	Description	idx.	Pos.	Part No.	Qty.	Type/Val.	Description	ldx.	Pos.	Part No.	Qty.	Type/Val
0 C1	59.06.0104	100		PETP, 63V, 10%, RM5	0	IC 23	50.17.1165		74HC165	IC 74 HC 165 ., ,A	0	R 42	57.11.3104		100k
0 C2	59.34.4101	100		CER 63V, 5%, N750	0	IC 24	50,17,1165		74HC165	IC 74 HC 165 ., ,A	0	R 43	57.11.3203		20k
0 C3	59.22.6100	100		EL 35V, 20%, RM5	0	IC 25	50.17.1014		74HC14	IC 74 HC 14 ., ,A	0	R 44	57.11.3101		100R
0 C4 0 C5	59.34.4271 59.06.0104	270 100		CER 63V, 5%, N750 PETP, 63V, 10%, RM5	0	IC 26 IC 27	50.17.1032 50.17.1074		74HC32 74HC74	IC 74 HC 32 ., ,A IC 74 HC 74A	0	R 45	57.11.3271 57.11.3103		270R 10k
0 06	59.34.1100	100		CER 63V, 5%, NP 0	0	IC 28	50.17.1595		74HC595	IC 74 HC 74 ,A	0	R 47	57.11.3103		10k
0 C7	59.22.8109	1u		EL 50V, 20%, RM5	0	IC 29	50.17.1595		74HC595	IC 74 HC 595 ,A	0	R 48	57.11.3103		10k
0 C8	59.34.4101	100		CER 63V, 5%, N750	0	IC 30	50.16.0301			IC PIC 16 C 57-HS/P ,A	0	R 49	57.11.3103		10k
				+ cap. 050pf parallel to C8 for adjustment	0	IC 31	50.17.1595		74HC595	IC 74 HC 595 ., ,A					
0 C9	59.06.0104	100		PETP, 63V, 10%, RM5	0	IC 32	50.17.1595		74HC595	IC 74 HC 595 ., ,A	0	RA 1	58.01,9203		20k
0 C10	59.22.6100	101		EL 35V, 20%, RM5							_				
0 C 11 0 C 12	59.06.0104	100		PETP, 63V, 10%, RM5	0	JS 1 MP 1	54.01.0021		Jumper	0.63 * 0.63mm SURFACE INTERFACE PCB //\	0	RZ 1 RZ 2	57.88.4473 57.88.4473		8*47k 8*47k
0 C 12 0 C 13	59.06.0104 59.06.0104	100		PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0	MP 1	1.940.712.11 1.940.712.04			NRETIKETTE 5 * 20	0	RZ 3	57.88.4473		8°47k 8°47k
0 C 14	59.06.0104	100		PETP, 63V, 10%, RM5	0	MP 3	43.01.0108	1 nce	Label	ESE-WARNSCHILD	ő	RZ 4	57.88.4473		8*47k
0 C 15	59.06.0104	100		PETP, 63V, 10%, RM5	0	MP 4	1.101.001.20	1 pce	Label	TEXT-ETIK. 5*20 HARDWARE -20	0	RZ 5	57.88.4473		8*47k
0 C16	59.22.8109	1u		EL 50V, 20%, RM5	0	MP 5	28.99.0119	2 pce		ROHRNIETE D 2.5*0.15* 9	0	RZ 6	57.88.4473		8*47k
0 C 17	59.06.0104	10	0n	PETP, 63V, 10%, RM5	0	MP 6	65.99.0167	10 mm	Tape	POLYURH, KLEBBAND WS, 9* 3	0	RZ7	57.88.4473		8*47k
0 C 18	59.06.0104	10		PETP, 63V, 10%, RM5	1	MP 7	29.99.0134		1.8*5	Lötspirale Cu Sn	0	RZ 8	57.88.4103		8*10k
0 C 19	59.06.0104	10		PETP, 63V, 10%, RM5	1	MP 8	43.10.0110		A	Revisions-Etikette 5mm h'blau	0	RZ 9	57.88.4103		8*10k
0 C 20	59.06.0104	10		PETP, 63V, 10%, RM5	0	P 1 P 2	54,11.2004		64-P	P EU-B 2 * 32	0	XIC 15	53.03.0173		28p
0 C 21	59.22.6100 59.34.2101	10		EL 35V, 20%, RM5 CER 63V, 5%, N150	0	P 3	54.16.0534 54.16.0534		34p 34p	P 1/40", 34 P, AU, PRINT P 1/40", 34 P, AU, PRINT	0	XIC 30			28p
0 C 22	59.22.6100	10		EL 35V, 20%, RM5	0	P4	54.14.2102		16p	P STECKER 16 P.AU, VR, GERADE	•	,,,,,	30.00.0113		Lop
0 C24	59.06.0104	10		PETP, 63V, 10%, RM5	0	P 5	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE	0	Y 1	89.01.1009		16.000Mi
0 C 25	59.06.0104	10		PETP, 63V, 10%, RM5	0	P6	54.14.2103		20p	P STECKER 20 P.AU,VR,GERADE					
0 C 26	59.22.4221	22	Ou	EL 16V, 20%, RM5	0	P 7	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE	-				End o
0 C 27	59.06.0104	10	0n	PETP, 63V, 10%, RM5	0	P 8	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE	Con	mments			
0 C 28	59.06 0104	10		PETP, 63V, 10%, RM5	0	P 9	54.02.0320		1p	Flatpin, 2.8*0.8mm	90.	· · · · · · · · · · · · · · · · · · ·	:		
0 C 29	59.06 0222	2n:		PETP, 63V, 10%, RM5	0	P 10	54.02.0320		1p	Flatpin, 2.8*0.8mm					
0 C 30	59.06.0104	10		PETP, 63V, 10%, RM5	0	P 11 P 12	54.11.0136		2*3p	Pin 0.63*0.63, RM2.54					
0 C 31 0 C 32	59.06.0104 59.06.0104	10		PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	U	P 12	not used		1p	Pin 0.63*0.63 see P11					
0 C33	59.06.0104	10		PETP, 63V, 10%, RM5	n	P 13	not used		1p	Pin 0.63*0.63					
0 C 34	59.06.0104	10		PETP, 63V, 10%, RM5	•		not obbd		.,,	see P11					
0 C35	59.06.0104	10	0n	PETP, 63V, 10%, RM5	0	P 14	not used		1p	Pin 0.63*0.63					
0 C 36	59.06.0104	10	0n	PETP, 63V, 10%, RM5						see P11					
0 C 37	59.06.0104	10		PETP, 63V, 10%, RM5	0	P 15	not used		1p	Pin 0.63*0.63					
0 C 38	59.06.0104	10		PETP, 63V, 10%, RM5						see P11					
0 C39	59.06.0104	10		PETP, 63V, 10%, RM5	0	P 16	not used		1p	Pin 0.63*0.63					
0 C40 0 C41	59.34.1150 59.34.1150	15 15		CER 63V, 5%, NP 0 CER 63V, 5%, NP 0						see P11					
0 C41	59.34.1180	22		EI 16V 20% RM5	0	Q 1	50.03.0407		BC550C	BC 550 C					
0 C43	59.06.0104	10		PETP, 63V, 10%, RM5	0	0.2	50.03.0407		BC550C	BC 550 C					
0 C 44	59.06.0104	10		PETP, 63V, 10%, RM5											
0 C 45	59.22.8470	47	'u	EL 63V, 20%, RM5	0	R 1	57.11.3103		10k	MF, 1%, 0207					
0 C 46	59.06.0104	10	10n	PETP, 63V, 10%, RM5	0	R 2	57.11.3102		1k0	MF, 1%, 0207					
0 D1	50.04.0127	В.	AT85	200mA, Schottky	0	R 3	57.11.3101		100R	MF, 1%,0207					
0 D2	50.04.0127	В	AT85	200mA, Schottky	0	R4 R5	57.11.3103 57.11.3113		10k 11k	MF, 1%, 0207 MF, 1%, 0207					
0 D3	50.04.0125		N4448	75V, 150mA, 4ns, DO-35	0	R6	57.11.3331		330R	MF, 1%, 0207					
0 D4	50.04.0125			75V, 150mA, 4ns, DO-35	0	R7	57.11.3331		330R	MF. 1%, 0207					
0 D5 0 D6	50.04.0125 50.04.0125			75V, 150mA, 4ns, DO-35	0	R8	57.11.3271		270R	MF, 1%, 0207					
0 D7	50.04.0125			75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0	R 9	57.11.3821		820R	MF, 1%, 0207					
0 D8	50.04.0125			75V, 150mA, 4ns, DO-35	0	R 10	57.11.5475		4M7	MF, 5%, 0207					
0 D9	50.04.0125			75V, 150mA, 4ns, DO-35	0	R 11	57.11.3102		1k0	MF, 1%, 0207					
0 D 10	50.04.0125			75V, 150mA, 4ns, DO-35	0	R 12 R 13	57.11.3104 57.11.3105		100k 1M0	MF, 1%, 0207 MF, 1%, 0207					
0 D 11	50.04.0125			75V, 150mA, 4ns, DO-35	0	R 14	57.11.3221		220R	MF, 1%, 0207 MF, 1%, 0207					
0 D12	50.04.0125			75V, 150mA, 4ns, DO-35	0	R 15	57.11.5475		4M7	MF, 5%, 0207					
0 D 13	50.04.0127 50.04.0125			200mA, Schottky 75V, 150mA, 4ns, DO-35	0	R 16	57.11.3101		100R	MF, 1%, 0207					
1 D15	50.04.0125			75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0	R 17	57.11.3101		100R	MF, 1%, 0207					
					0	R 18	57.11.3101		100R	MF, 1%, 0207					
0 DL 1	50.04.2121	TI	LUR 2401	DL TLUR 2401 RT MATT	0	R 19	57.11.3101		100R	MF, 1%, 0207					
0 IC 1	50.10.0106	TI	L431	Shunt regulator	0	R 20	57.11.3152		1k5	MF, 1%, 0207					
0 IC2	50.09.0101			IC TL 072 CN ,A	0	R 21	57.11.3152		1k5	MF, 1%, 0207					
0 IC3	50.17.1138	74	4HC138	IC 74 HC 138., ,A	0	R 22 R 23	57.11.3472 57.11.3472		4k7 4k7	MF, 1%, 0207 MF, 1%, 0207					
0 IC 4	50.17.1138			IC 74 HC 138., ,A	0	R 24	57.11.3472		487 150k	MF, 1%, 0207 MF, 1%, 0207					
0 IC 5	50.10.0109	L	M337L	Series regulator 100mA37V	0	R 25	57.11.3473		47k	MF, 1%, 0207					
0 106	50.17.4051	_		IC 74 HC 4051 ., ,A	0	R 26	57.11.3271		270R	MF, 1%, 0207					
0 IC7 0 IC8	50.09.0103 50.09.0127			IC TL 071 CP, ,A Dual Op-Amp BiFET DIP 8	0	R 27	57.11.3821		820R	MF, 1%, 0207					
0 10 9	50.17.1138			IC 74 HC 138 ., ,A	0	R 28	57.11.3101		100R	MF, 1%, 0207					
0 IC 10	50.17.1165			IC 74 HC 165 A	0	R 29	57.11.3101		100R	MF, 1%, 0207					
0 IC 11	50.17.1165			IC 74 HC 165 ., ,A	0	R 30	57.11.3101		100R	MF, 1%, 0207					
0 IC 12	50.17.1165		4HC165	IC 74 HC 165 ., ,A	0	R 31	57.11.3101		100R	MF, 1%, 0207					
0 IC 13	50.17.1074	74	4HC 74	IC 74 HC 74 ., ,A	0	R 32 R 33	57.11.3331 57.11.3331		330R 330R	MF, 1%, 0207 MF, 1%, 0207					
0 IC 14	50.10.0109			Series regulator 100mA37V	0	R 33	57.11.3331 57.11.3101		330R 100R	MF, 1%, 0207 MF, 1%, 0207					
0 IC 15	50.19.0204			A/D Converter 12bit 4ch mux	0	R 35	57.11.3101 57.11.3101		100R 100R	MF, 1%, 0207 MF, 1%, 0207					
	not used			not used	0	R 36	57.11.3101		100R	MF, 1%, 0207 MF, 1%, 0207					
0 IC 16		74		IC 74 HC 32 ., ,A	0	R 37	57.11.3101		100R	MF. 1% 0207					
0 IC 17	50.17.1032	7.	4HC574	IC 74 HC 674 A											
0 IC 17 0 IC 18	50.17.1574			IC 74 HC 574 ., ,A Octal bus buffer	0	R 38			1k0						
0 IC 17		74	4HC541	Octal bus buffer	0	R 38 R 39	57.11.3102 57.11.3223			MF, 1%, 0207 MF, 1%, 0207					
0 IC 17 0 IC 18 0 IC 19	50.17.1574 50.17.1541	74 74	4HC541 4HC138	Octal bus buffer	0	R 38	57.11.3102		1k0	MF, 1%, 0207					

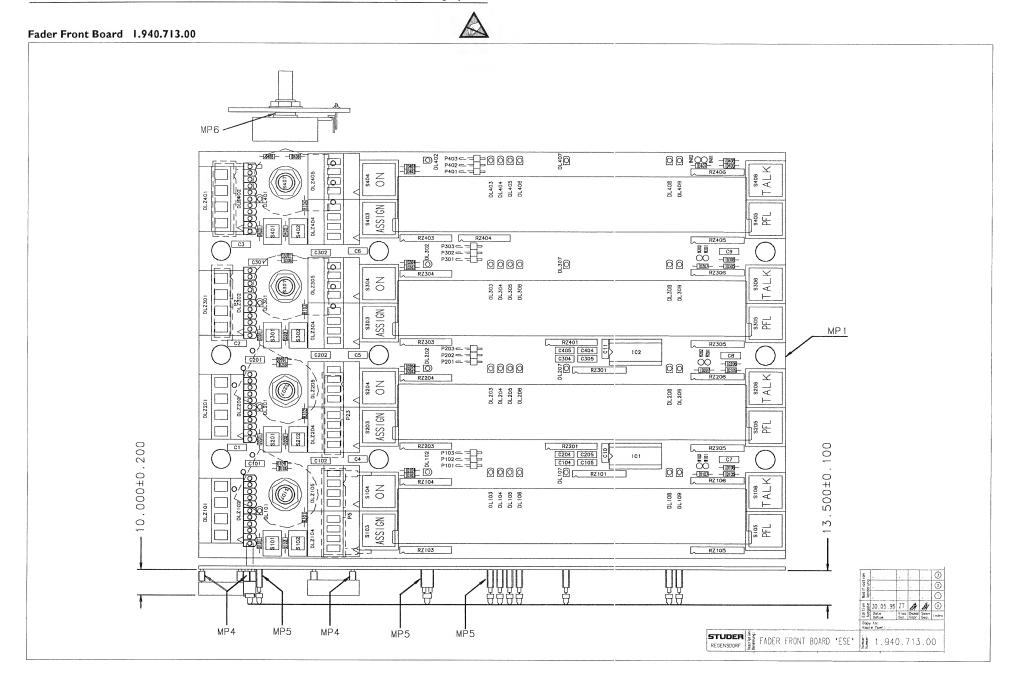
dx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	R 42	57.11.3104		100k	MF, 1%, 0207
0	R 43	57.11.3203		20k	MF, 1%, 0207
0	R 44	57.11.3101		100R	MF, 1%, 0207
0	R 45	57.11.3271		270R	MF, 1%, 0207
0	R 46	57.11.3103		10k	MF, 1%, 0207
0	R 47	57.11.3103		10k	MF, 1%, 0207
0	R 48	57.11.3103		10k	MF, 1%, 0207
0	R 49	57.11.3103		10k	MF, 1%, 0207
0	RA 1	58.01,9203		20k	Cermet, 10%, 0.5W, vertical
0	RZ 1	57.88.4473		8*47k	2%, SIP 9
0	RZ 2	57.88.4473		8*47k	2%, SIP 9
0	RZ 3	57.88.4473		8*47k	2%, SIP 9
0	RZ 4	57.88.4473		8*47k	2%, SIP 9
0	RZ 5	57.88.4473		8*47k	2%, SIP 9
0	RZ6	57.88,4473		8*47k	2%, SIP 9
0	RZ7	57.88,4473		8*47k	2%, SIP 9
0	RZ 8	57.88.4103		8*10k	2%, SIP 9
0	RZ 9	57.88.4103		8*10k	2%, SIP 9
0	XIC 15	53.03.0173		28p	DIL 0.6", löt, gerade
0	XIC 30	53.03.0173		28p	DIL 0.6", löt, gerade
0	Y 1	89.01.1009		16.000MHz	16.000 000 MHz, HC 49/U
				End of L	st

Fader Front Board 1.940.713.00





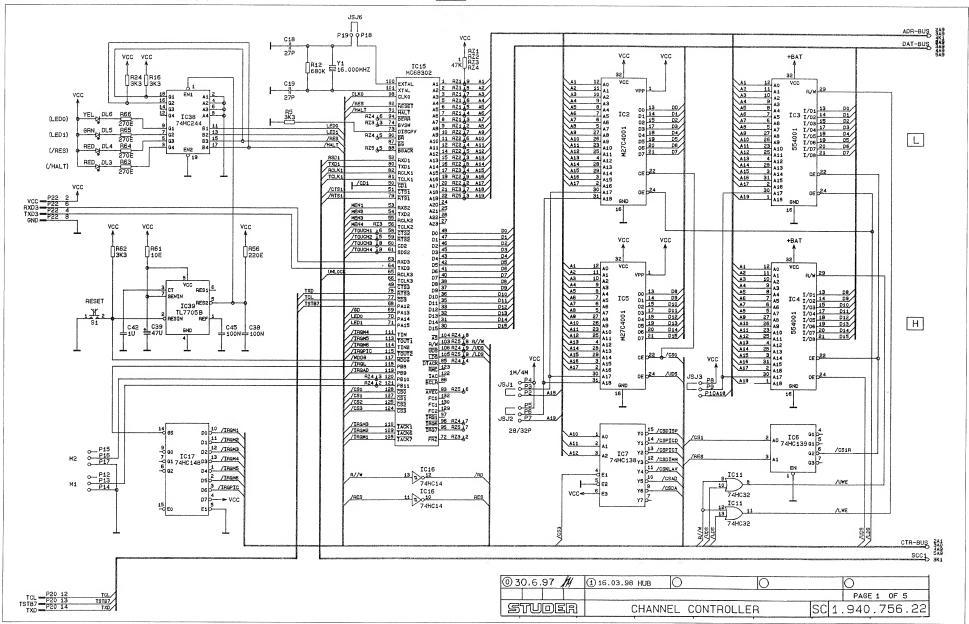




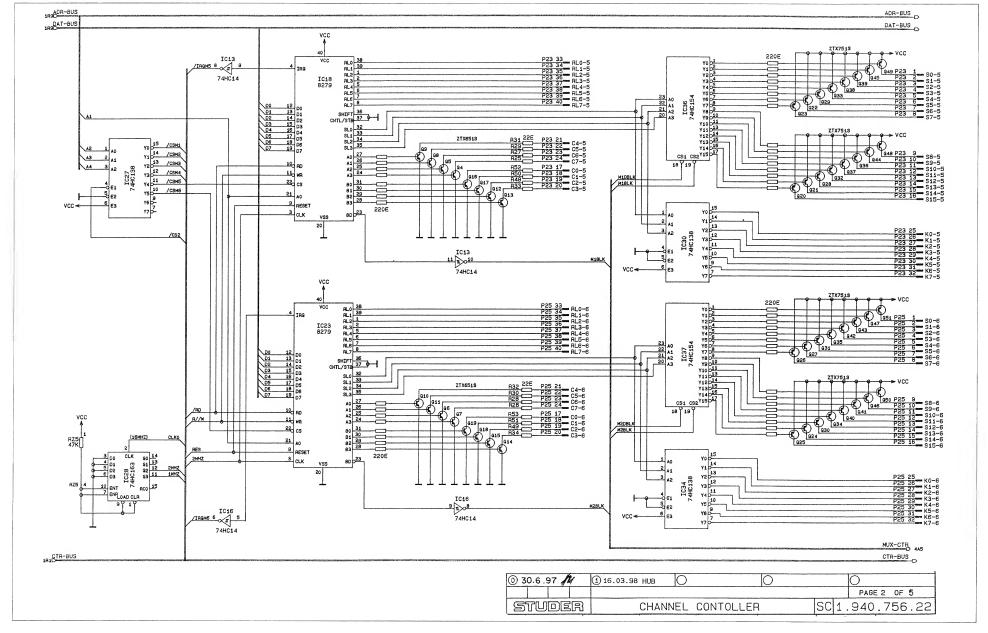


	Board	1.940.	713.00								
dx. Pos. P	Part No. Qty.	Type/Val.	Description	ldx. Pos.	Part No. Qty.	Type/Val.	Description	ldx. Pos.	Part No. Qty.	Type/Val.	Description
0 C1	59 06 0104	100n	PETP, 10%, 63V	0 DL 303	50 04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 RZ 405	57.88.2220	4*22R	2%, SIP 8
0 01	59 06 0104	100n	PETP, 10%, 63V	0 DL 304	50 04 2133	TLUY 2401	DL TLUY 2401 GB MATT	0 RZ 406	57 88 2220	4*22R	2%, SIP 8
	59 06 0104 59 06 0104	100n 100n	PETP, 10%, 63V PETP, 10%, 63V	0 DL 305 0 DL 306	50 04.2133 50 04.2121	TLUY 2401 TLUR 2401	DL TLUY 2401 GB MATT DL TLUR 2401 RT MATT	0 S 101	55.15 0644	1*a	S TASTE 1*A, 5MM, GB/GB
	59.06.0104	100n	PETP, 10%, 63V	0 DL 307	50.04.2121	TLUR 2401	DL TLUR 2401 RT MATT	0 S 102	55.15 0655	1*a	S TASTE I'A, 5MM, GN/GN
	59 06 0104	100n	PETP, 10%, 63V	0 DL 308	50 04 2132	TLUG 2401	DL TLUG 2401 GN MATT	0 S 103	55 15 0744	1'a	S TASTE 1*A, 12MM, GB/GB
	59 06 0104	100n	PETP, 10%, 63V	0 DL 309	50 04 2132	TLUG 2401	DL TLUG 2401 GN MATT	0 S 104	55 15 0722	1*a	S TASTE 1*A, 12MM, RT/RT
	59.06.0104	100n	PETP, 10%, 63V	0 DL 401	50 04 2132	TLUG 2401	DL TLUG 2401 GN MATT	0 S 105	55.15.0744	1*a	S TASTE 1*A, 12MM, GB/GB
	59 06 0104	100n 100n	PETP, 10%, 63V PETP 10% 63V	0 DL 402	50 04 2132	TLUG 2401	DL TLUG 2401 GN MATT	0 S 106	55,15,0722	1*a	S_TASTE 1*A, 12MM, RT/RT
	59 06 0104 59 06 0104	100n 100n	PETP, 10%, 63V PETP, 10%, 63V	0 DL 403 0 DL 404	50 04 2133 50 04 2133	TLUY 2401 TLUY 2401	DL TLUY 2401 GB MATT DL TLUY 2401 GB MATT	0 S 107 0 S 201	1 940 751 02 55.15 0644	1'a	ROTARY ENCODER S. TASTE 1*A, 5MM, GB/GB
	59 06 0104	100n	PETP, 10%, 63V	0 DL 405	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 S 201	55.15 0644	1°a 1*a	S TASTE 1"A, 5MM, GB/GB S TASTE 1"A, 5MM, GN/GN
	59 06 0104	100n	PETP, 10%, 63V	0 DL 406	50 04 2121	TLUR 2401	DL TLUR 2401 RT MATT	0 S 203	55.15.0744	1*a	S TASTE 1"A, 12MM, GB/GB
	59.06.0102	1n0	PETP, 10%, 63V	0 DL 407	50 04 2121	TLUR 2401	DL TLUR 2401 RT MATT	0 S 204	55 15 0722	1*a	S TASTE 1"A. 12MM. BT/RT
	59 06 0102	1n0	PETP, 10%, 63V	0 DL 408	50 04 2132	TLUG 2401	DL TLUG 2401 GN MATT	0 S 205	55 15 0744	1*a	S TASTE 1*A, 12MM, GB/GB
	59 06 0104	100n	PETP, 10%, 63V	0 DL 409	50 04 2132	TLUG 2401	DL TLUG 2401 GN MATT	0 S 206	55 15 0722	1'a	S TASTE 1*A, 12MM, RT/RT
	59 06 0104	100n	PETP, 10%, 63V	0 DLZ 101	73 01,0405		LED DOT MATR-DISP 4 DIG 5X7	0 S 207	1 940 751 02		ROTARY ENCODER
	59 06 0102	1n0	PETP, 10%, 63V PETP, 10%, 63V	0 DLZ 102	50 04 2812		DLZ 11°D GB	0 S 301	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
	59.06.0102 59.06.0104	1n0 100n	PETP, 10%, 63V	0 DLZ 104 0 DLZ 105	73 01 0406 73 01 0406		LED DOT MATR-DISP 4 DIG 5X7	0 \$ 302 0 \$ 303	55.15.0655 55.15.0744	1*a 1*a	S TASTE 11-A, 5MM, GN/GN
	59.06.0104	100n	PETP. 10%, 63V	0 DLZ 105	73 01,0405		LED DOT MATR-DISP 4 DIG 5X7 LED DOT MATR-DISP 4 DIG 5X7	0 S 304	55 15 0744	1*a	S TASTE 1"A, 12MM, GB/GB S TASTE 1"A, 12MM, RT/RT
	59.06.0102	1n0	PETP, 10%, 63V	0 DLZ 202	50 04 2812		DLZ 11°D GB	0 S 305	55 15 0744	1*a	S TASTE I'A 12MM GB/GR
	59.08.0102	1n0	PETP, 10%, 63V	0 DLZ 204	73 01 0406		LED DOT MATR-DISP 4 DIG 5X7	0 S 306	55 15 0722	1°a	S TASTE 1'A, 12MM, RT/RT
C 404	59.06.0102	1n0	PETP, 10%, 63V	0 DLZ 205	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 S 307	1 940 751 02		ROTARY ENCODER
	59 06 0102	1n0	PETP, 10%, 63V	0 DLZ 301	73.01.0405		LED DOT MATR-DISP 4 DIG 5X7	0 S 401	55 15 0644	1*a	S TASTE 1*A, 5MM, GB/GB
				0 DLZ 302	50 04 2812		DLZ 11*D GB	0 S 402	55.15.0655	1*a	S TASTE 1°A, 5MM, GN/GN
	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 304	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 S 403	55.15 0744	1*a	S TASTE 1*A, 12MM, GB/GB
	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 305	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 S 404	55 15 0722	1*a	S TASTE 1°A, 12MM, RT/RT
	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 401	73 01 0405		LED DOT MATR-DISP 4 DIG 5X7	0 S 405	55.15 0744	1*a	S TASTE 11A, 12MM, GB/GB
	50 04 0125 50 04 0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 DLZ 402 0 DLZ 404	50 04 2812 73 01 0406		DLZ 11*D GB LED DOT MATR-DISP 4 DIG 5X7	0 \$ 406 0 \$ 407	55 15 0722 1 940.751 02	1*a	S TASTE 1*A, 12MM, RT/RT ROTARY ENCODER
	50.04.0125	1N4448	75V, 150mA, 4ns DO-35	0 DLZ 405	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 5407	1.940./51.02		ROTARY ENCODER
	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 002 400	73.01 0400		LED DOT MATRIDISE 4 DIG 3X1	0 W 101	not used	1-P	MP RAST LOETKONTAKT D 1 3
	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35	0 101	50 17.1014	74HC14	IC 74 HC 14A	0 W 102	not used	1-P	MP RAST LOETKONTAKT D13
	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35	0 IC 2	50.17.1014	74HC14	IC 74 HC 14 ., , ,A	0 W 201	not used	1-P	MP RAST LOETKONTAKT D13
D 201	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35					0 W 202	not used	1-P	MP RAST LOETKONTAKT D 1.3
	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35	0 MP 1	1 940 711.11 1 pce		FADER FRONT PCB //\	0 W 301	not used	1-P	MP RAST LOETKONTAKT D 1.3
	50.04 0125	1N444B	75V, 150mA, 4ns, DO-35	0 MP 2	43 01 0108 1 pce	Label	ESE-WARNSCHILD	0 W 302	not used	1-P	MP RAST LOETKONTAKT D 1.3
	50 04 0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 MP 3	1 940 713 04 1 pce		NR -ETIKETTE 5 * 20	0 W 401	not used	1-P	MP RAST LOETKONTAKT D13
	50 04 0125 50 04 0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 MP 4	53.03.0218 264 pc		XIC SINGLE, IN-LINE 1PIN=1STK	0 W 402	not used	1-P	MP RASTLOETKONTAKT D13
	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 MP5 0 MP6	53 03 0240 36 pcs		XLED SINGLE LINE, 2 POL, PRINT				
	50 04 0125	1N4448	75V. 150mA. 4ns. DO-35	U WIFE	1.010 091 23 4 pcs		DISTANZSCHEIBE D 9 0/12* 1 2			End of List	
	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35	0 P2	54 16 0534	34p	P 1/40". 34 P. AU. PRINT	Comments:			
	50 04 0125	1N4448	75V, 150mA, 4ns. DO-35	0 P4	54 14 2102	16p	P STECKER 16 P,AU,VR,GERADE				
	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35	0 P5	54 14 2103	20p	P STECKER 20 P,AU,VR,GERADE				
	50 04 3125	1N4448	75V, 150mA, 4ns, DO-35	0 P 23	54 16 0540	40p	P 1/40", 40 P, AU, PRINT				
	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35	0 P 101	54.11.0125	1p	P STIFT, WINKEL 1 PIN=1 STK.				
	50 04 0125 50 04 0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 102	54.11.0125	1p	P STIFT, WINKEL 1 PIN=1 STK.				
	50 04 0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 103	54.11.0125 54.11.0125	1p 1p	P STIFT, WINKEL 1 PIN=1 STK.				
	50.04.0125	1N4448		0 P 201			and the second s				
	50 04 0125			0 0 202			P STIFT,WINKEL 1 PIN=1 STK.				
		1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 202	54.11.0125	1p	P STIFT, WINKEL 1 PIN=1 STK				
	50 04 0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35	0 P 203	54 11 0125 54 11 0125	1p 1p	P STIFT, WINKEL 1 PIN=1 STK. P STIFT, WINKEL 1 PIN=1 STK.				
D 401					54.11.0125	1p	P STIFT, WINKEL 1 PIN=1 STK				
D 401 D 402	50 04 0125	1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 203 0 P 301	54.11.0125 54.11.0125 54.11.0125	1p 1p 1p 1p	P STIFT, WINKEL 1 PIN=1 STK P STIFT, WINKEL 1 PIN=1 STK P STIFT, WINKEL 1 PIN=1 STK				
D 401 D 402 D 403 D 404	50 04 0125 50 04 0125 50 04 0125 50 04 0125	1N4448 1N4448 1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 203 0 P 301 0 P 302 0 P 303 0 P 401	54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125	1p 1p 1p	P STIFT, WINKEL 1 PIN=1 STK				
D 401 D 402 D 403 D 404 D 405	50 04 0125 50 04 0125 50 04 0125 50 04 0125 50 04 0125 50 04 0125	1N4448 1N4448 1N4448 1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 203 0 P 301 0 P 302 0 P 303 0 P 401 0 P 402	54.11.0125 54.11.0125 54.11.0125 54.11.0125 54.11.0125 54.11.0125 54.11.0125	1p 1p 1p 1p 1p 1p 1p	P STIFT,WINKEL 1 PIN=1 STK				
D 401 D 402 D 403 D 404 D 405 D 406	50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04 0125 50 04 0125	1N4448 1N4448 1N4448 1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 203 0 P 301 0 P 302 0 P 303 0 P 401	54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125	1p 1p 1p 1p 1p 1p	P STIFT, WINKEL 1 PIN=1 STK				
D 401 D 402 D 403 D 404 D 405 D 406 D 407	50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04 0125 50 04 0125	1 N4448 1 N4448 1 N4448 1 N4448 1 N4448 1 N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 203 0 P 301 0 P 302 0 P 303 0 P 401 0 P 402 0 P 403	54.11.0125 54.11.0125 54.11.0125 54.11.0125 54.11.0125 54.11.0125 54.11.0125 54.11.0125 54.11.0125	1p 1p 1p 1p 1p 1p 1p 1p	P STIFT,WANKEL 1 PINN 1 STK				
D 401 D 402 D 403 D 404 D 405 D 406 D 407 D 408	50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04 0125 50 04.0125 50 04.0125	1 N4448 1 N4448 1 N4448 1 N4448 1 N4448 1 N4448 1 N4448 1 N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 203 0 P 301 0 P 302 0 P 303 0 P 401 0 P 402 0 P 403	54 11 0125 54 11 0125 57 10 1102	1p 1p 1p 1p 1p 1p 1p 1p	P STIFT,WINKEL 1 PIN-1 STK MF. 1%, 0204				
D 401 D 402 D 403 D 404 D 405 D 406 D 407 D 408	50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04 0125 50 04 0125	1 N4448 1 N4448 1 N4448 1 N4448 1 N4448 1 N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 203 0 P 301 0 P 302 0 P 302 0 P 303 0 P 401 0 P 402 0 P 403	54 11 0125 54 11 0125 57 10 1102	1p 1p 1p 1p 1p 1p 1p 1p 1p 1p	P STET_WANKEL 1 PINN STK ME 1%, 0204				
D 401 D 402 D 403 D 404 D 405 D 406 D 407 D 408 D 409	50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448	78V, 150mA, 4ns, D0-35 78V, 150mA, 4ns, D0-35	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 101 O R 102 O R 103	54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102	1p 1p 1p 1p 1p 1p 1p 1p 1p 1k0 1k0	P STET, WINKEL 1 PIN-1 STK P STETF WINKEL 1 PIN-1 STK MF . 1%, 0204 MF . 1%, 0204 MF . 1%, 0204				
D 401 D 402 D 403 D 404 D 405 D 406 D 407 D 408 D 409	50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04.0125	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448	75V. 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 P 203 0 P 301 0 P 302 0 P 302 0 P 303 0 P 401 0 P 402 0 P 403	54 11 0125 54 11 0125 57 10 1102	1p 1p 1p 1p 1p 1p 1p 1p 1p 1p	P STET_WANKEL 1 PINN STK ME 1%, 0204				
D 401 D 402 D 403 D 404 D 405 D 406 D 407 D 407 D 409 DL 101 DL 101	50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04.0125	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448	78V, 150mA, 4ns, Do-35 DL TLUG 2401 GN MATT DL TLUG 2401 GN MATT	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 101 O R 102 O R 103	54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102	1p 1p 1p 1p 1p 1p 1p 1p 1p 1k0 1k0	P STET, WINKEL 1 PIN-1 STK P STETF WINKEL 1 PIN-1 STK MF . 1%, 0204 MF . 1%, 0204 MF . 1%, 0204				
D 401 D 402 D 403 D 404 D 405 D 406 D 407 D 408 D 409 DL 101 DL 102 DL 103	50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04.0125	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 TLUG 2401 TLUG 2401	78V, 150mA, 4ns, Do-35 DL TLUG 2401 GN MATT DL TLUG 2401 GN MATT	0 P 203 0 P 301 0 P 302 0 P 302 0 P 303 0 P 401 0 P 402 0 P 403 0 R 101 0 R 102 0 R 103 0 R 104	54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 88 2104	1p 1p 1p 1p 1p 1p 1p 1p 1p 1k0 1k0 1k0	P STIFT_WANKEL 1 PINN STK MF 15, 0.004 MF 15, 0.004 MF 15, 0.004 MF 15, 0.004 26, SIP 8				
D 401 D 402 D 403 D 404 D 405 D 406 D 406 D 407 D 408 D 409 DL 101 DL 102 DL 103 DL 104 DL 105	50 04 0125 50 04 0125 50 04.0125 50 04.0125 50 04.0125 50 04.0125 50 04.0125 50 04.0125 50 04.0125 50 04.2132 50 04.2133 50 04.2133 50 04.2133 50 04.2133	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 TLUG 2401 TLUG 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUY 2401	75V. 150mA, 4ns, DO-35 DL TLUG 2401 GN MATT DL TLUG 2401 GB MATT DL TLUY 2401 GB MATT DL TLUY 2401 GB MATT DL TLUY 2401 GB MATT	O P 203 O P 301 O P 302 O P 302 O P 401 O P 402 O P 403 O R 101 O R 102 O R 103 O R 104 O R 2 104	54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102 57 10 1102	1p 1p 1p 1p 1p 1p 1p 1p 1p 1k0 1k0	P STET, WANKEL 1 PIN-1 STK P STET, WANKEL 1 PIN-1 STK P STIFT, WANKEL 1 PIN-1 STK P STIFT, WANKEL 1 PIN-1 STK P STET, WANKEL 1 PIN-1 STK MF 134, 0204 MF 154, 0204 MF 154, 0204 MF 154, 0204				
D 401 D 402 D 403 D 404 D 406 D 406 D 407 D 406 D 407 D 408 D 409 DL 101 DL 102 DL 103 DL 104 DL 105 DL 106	50 04 0125 50 04 2132 50 04 2132 50 04 2133 50 04 2133 50 04 2133 50 04 2133	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 TLUG 2401 TLUG 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUY 2401	78V, 150mA, 4ns, DO-35 TSV, 150mA, 4ns, DO-35 DI, TLUQ 2401 GN MATT DI, TLUY 2401 GN MATT	O P 203 O P 301 O P 302 O P 302 O P 303 O P 401 O P 402 O P 403 O R 101 O R 102 O R 103 O R 104 O RZ 101 O RZ 103 O RZ 103 O RZ 104 O RZ 105 O RZ 104 O RZ 105	54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 88 2220 57 88 2220 57 88 2220 57 88 2220	1p 1p 1p 1p 1p 1p 1p 1p 1p 1k0 1k0 1k0 1k0 4*120k 4*22R 4*22R	P STET, WANKEL 1 PIN-1 STK P STET, WANKEL 1 PIN-1 STK P STIFT, WANKEL 1 PIN-1 STK P STIFT, WANKEL 1 PIN-1 STK P STET, WANKEL 1 PIN-1 STK MF . 1%, 0.004				
D 401 D 402 D 403 D 404 D 405 D 406 D 406 D 406 D 407 D 408 D 407 D 408 D 409 DL 101 DL 102 DL 103 DL 105 DL 105 DL 105 DL 105 DL 105	50 04 0125 50 04 2132 50 04 2133 50 04 2133 50 04 2133 50 04 2133 50 04 2133 50 04 2133	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 TLUG 2401 TLUG 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUR 2401	78V. 150mA, 4ns, DO-35 DI. TLUG 2401 GN MATT DI. TLUG 2401 GN MATT DI. TLUY 2401 GB MATT DI. TLUR 2401 TRI MATT DI. TLUR 2401 TRI MATT	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 101 O R 102 O R 104 O R 104 O R 2 101 O R 2 101 O R 2 101 O R 2 105 O R 2 105 O R 2 105 O R 2 106	54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102 57 88 2104 57 88 2220 57 88 2220 57 88 2220 57 88 2220	1p 1p 1p 1p 1p 1p 1p 1p 1p 1k0 1k0 1k0 4*100k 4*22R 4*22R 4*22R	P STRT-WANKEL 1 PINN STK MF 1%, 0.004 MF 1% 0.004 MF 1% 0.008 M				
D 401 D 402 D 403 D 404 D 405 D 405 D 405 D 406 D 406 D 407 D 408 D 407 D 408 D 101 D 102 D 103 D 104 D 105 D 105 D 105 D 106 D 107 D 108	50 04 0125 50 04 2133 50 04 2133	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 TLUG 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUR 2401	78V, 150mA, 4ns, Do-35 DI, TLUG 2401 DI, TLUG 2401 GN MATT DI, TLUY 2401 GN MATT DI, TLUR 2401 GN MATT	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 102 O R 102 O R 103 O R 104 O R 2 103 O R 2 104 O R 2 105 O R 2 105 O R 2 106 O R 2 106 O R 2 106 O R 2 106 O R 2 201	54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 88 2220 57 88 2220	1p 1p 1p 1p 1p 1p 1p 1p 1p 1d 1k0 1k0 1k0 1k0 4*120k 4*22R 4*22R 4*22R 4*22R 4*22R	P STIFT, WANKEL 1 PINN 1 STK P STIFT, WANKEL 1 PINN 1 STK P STIFT WANKEL 1 PINN 1 STK P STIFT WANKEL 1 PINN 1 STK P STIFT, WANKEL 1				
D 401 D 402 D 403 D 404 D 405 D 406 D 406 D 407 D 408 DL 101 DL 102 DL 103 DL 104 DL 105 DL 106 DL 106 DL 106 DL 107 DL 108 DL 106 DL 107 DL 108 DL 100	50 04 0125 50 04 2132 50 04 2133 50 04 2133	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 TLUG 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUR 2401	78V. 150mA, 4ns. DO-35 10L. TLUG 2401 GN MATT DL. TLUG 2401 GN MATT DL. TLUG 2401 GB MATT DL. TLUG 2401 GR MATT	0 P 203 0 P 301 0 P 302 0 P 303 0 P 401 0 P 402 0 P 403 0 R 101 0 R 102 0 R 104 0 R 2 101 0 R 2 101 0 R 2 105 0 R 2 106 0 R 2 106 0 R 2 106 0 R 2 201 0 R 2 203	54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 55 11 0125 57 10 1102 57 10 1102 57 10 1102 57 88 220 57 88 2220 57 88 2220	1p 1p 1p 1p 1p 1p 1p 1p 1p 1to 1k0 1k0 4*100k 4*122R 4*122R 4*122R 4*122R 4*122R	P STET_WANKEL 1 PINN STK MF. 1%, 0.004 MF.				
D 401 D 402 D 403 D 404 D 405 D 406 D 406 D 406 D 406 D 406 D 406 D 101 D 102 D 105 D 106 D 106 D 107 D 108 D 106 D 106 D 106 D 107 D 108 D 106 D 107 D 108 D 108 D 108 D 108 D 108 D 109 D 108	50 dd 0125 50 04 2132 50 04 2133 50 04 2132 50 04 2132 50 04 2132 50 04 2132	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 TLUG 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUZ 2401	78V, 150mA, 4ns, DO-35 178V, 150mA, 4ns,	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 102 O R 103 O R 104 O R 2 103 O R 2 104 O R 2 105 O R 2 106 O R 2 106 O R 2 106 O R 2 106 O R 2 201 O R 2 204 O R 2 204	54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 88 2220 57 88 2220 57 88 2220 57 88 2220 57 88 2220 57 88 2220 57 88 2220	1p 1	P STIFT, WANKEL 1 PINN 1 STK P STIFT, WANKEL 1 PINN 1 STK P STIFT WANKEL 1 PINN 1 STK P STIFT WANKEL 1 PINN 1 STK P STIFT WANKEL 1 PINN 1 STK P STIFT, WANKEL 1 P				
D 401 D 402 D 403 D 404 D 405 D 406 D 406 D 407 D 408 DL 101 DL 102 DL 103 DL 106 DL 106 DL 107 DL 108 DL 106 DL 107 DL 109 DL 106 DL 107 DL 109 DL 201	50 04 0125 50 04 2132 50 04 2133 50 04 2121 50 04 2121 50 04 2132 50 04 2132 50 04 2132	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1TLUG 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUR 2401	78V, 150mA, 4ns, D0-35 DL TLUG 2401 GN MATT DL TLUG 2401 GN MATT DL TLUG 2401 GN MATT DL TLUG 2401 RT MATT DL TLUG 2401 GN MATT	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 101 O R 102 O R 103 O R 104 O R 2 101 O R 2 101 O R 2 102 O R 2 104 O R 2 105 O R 2 106 O R 2 106 O R 2 201 O R 2 203 O R 2 204 O R 2 206	54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102 57 88 220 57 88 2220 57 88 2220	1p 1	P STET_WANKEL 1 PIN-1 STK MF. 1%, 0204 MF. 1				
D 401 D 402 D 402 D 403 D 404 D 405 D 406 DL 101 DL 102 DL 105 DL 106 DL 106 DL 107 DL 108 DL 108 DL 108 DL 109 DL 109 DL 109 DL 109 DL 109 DL 100 DL 100 DL 100 DL 100	50 04 0125 50 04 2132 50 04 2133 50 04 2133 50 04 2133 50 04 2133 50 04 2133 50 04 2133 50 04 2132 50 04 2132	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 TLUG 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUG 2401	78V, 150mA, 4ns, DO-35 178V, 150mA, 4ns,	O P 203 O P 301 O P 302 O P 303 O P 401 O P 403 O P 403 O R 102 O R 103 O R 104 O R 2 103 O R 2 104 O R 2 105 O R 2 105 O R 2 105 O R 2 201 O R 2 204 O R 2 205 O R 2 206	54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 88 2200	1p	P STIFT, WANKEL 1 PINN 1 STK P STIFT, WANKEL 1 PINN 1 STK P STIFT WANKEL 1 PINN 1 STK P STIFT WANKEL 1 PINN 1 STK P STIFT, WANKEL 1				
D 401 D 402 D 403 D 404 D 405 D 406 D 407 D 408 D 407 D 409 DL 101 DL 102 DL 103 DL 104 DL 105 DL 106 DL 106 DL 106 DL 107 DL 108 DL 106 DL 202 DL 203 DL 204	50 d. 0125 50 44 0125 50 44 0125 50 44 0125 50 40 0125 50 40 0125 50 40 0125 50 04 0125 50 04 0125 50 04 0125 50 04 2125 50 04 2133 50 04 2133	114448 11444 114448 114	78V, 150mA, 4ns, D0-35 10L TLUG 2401 10L TLUG 24	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 101 O R 102 O R 103 O R 104 O RZ 101 O RZ 101 O RZ 102 O RZ 106 O RZ 106 O RZ 106 O RZ 206	S4 11 0125 S5 11 0125 S5 11 0125 S7 10 1102 S7 10 1102 S7 10 1102 S7 10 1102 S7 88 2220	1p	P STET_WINNEL 1 PINN 1 STK P STET_WINN				
D 401 D 402 D 403 D 404 D 405 D 406 D 406 D 406 D 406 D 406 D 407 D 408	50 04 0125 50 04 2132 50 04 2133 50 04 2133 50 04 2133 50 04 2133 50 04 2133 50 04 2133 50 04 2132 50 04 2132	1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 TLUG 2401 TLUY 2401 TLUY 2401 TLUY 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUG 2401	75V, 150mA, 4ns, Do.35	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 102 O R 103 O R 104 O R 2 104 O R 2 105 O R 2 106 O R 2 106 O R 2 106 O R 2 201 O R 2 206 O R 2 301 O R 2 301	54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 55 11 0125 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 88 2220	1p	P STIFT_WANKEL 1 PINN STK P STIFT_WANKEL 1 P				
D 401 D 402 D 403 D 404 D 405 D 406 D 407 D 408 D 408 D 101 D 102 D 103 D 106 D 107 D 108	50 do 0125 50 40 0125 50 40 0125 50 04 2132 50 04 2133 50 04 2133	1Na448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 TLUG 2401 TLUG 2401 TLUY 2401 TLUY 2401 TLUR 2401 TLUR 2401 TLUR 2401 TLUG 2401	78V, 150mA, 4ns, Do-35 10L TLUG 2401 GN MATT DL TLUG 2401 GN MATT D	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 101 O R 102 O R 103 O R 104 O R 2 101 O R 2 101 O R 2 201 O R 2 301 O R 2 304	S4 11 0125 S5 11 0125 S5 11 0125 S7 10 1102 S7 10 1102 S7 10 1102 S7 10 1102 S7 88 2220	1p	P STIFT_WINNEL 1 PINN 1 STK. P STIFT_WINNEL 1				
D 401 D 402 D 403 D 404 D 405 D 405 D 406 D 407 D 408 DL 101 DL 102 DL 103 DL 104 DL 102 DL 108 DL 109 DL 201 DL 203 DL 204 DL 205	50 d. 0125 50 44 0125 50 44 0125 50 44 0125 50 40 0125 50 40 0125 50 40 0125 50 40 0125 50 40 0125 50 04 0125 50 04 0125 50 04 2132 50 04 2133 50 04 2133 50 04 2133 50 04 2133 50 04 2121 50 04 2133 50 04 2133	1NA448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1LUG 2401 TLUG 2401	75V, 150mA, 4ns, Do.35	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 102 O R 103 O R 104 O R 2 104 O R 2 105 O R 2 106 O R 2 106 O R 2 106 O R 2 201 O R 2 206 O R 2 301 O R 2 301	54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 55 11 0125 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 88 2220	1p	P STIFT_WANKEL 1 PINN STK P STIFT_WANKEL 1 P				
D 401 D 402 D 403 D 404 D 405 D 405 D 406 D 407 D 409 DL 101 DL 102 DL 103 DL 104 DL 102 DL 106 DL 107 DL 108 DL 109 DL 201 DL 202 DL 203 DL 204 DL 205 DL 205 DL 205 DL 205 DL 206 DL 207 DL 208 DL 207 DL 208 DL 207 DL 208	50 do 0125 50 44 0125 90 44 0132 90 44 2132 90 44 2132 90 44 2132 90 44 2132 90 44 2132 90 44 2132 90 44 2133 90 44 2133 90 44 2132 90 44 2132 90 44 2132 90 44 2132 90 44 2132 90 44 2132 90 44 2133 90 44 2134 90 44	INA448 IN4448 IN4448 IN4448 IN4448 IN4448 IN4448 IN4448 IN4449 ILUG 2401	75V, 150mA, 4ns, Do.35	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 102 O R 103 O R 104 O R 2 103 O R 2 104 O R 2 105 O R 2 105 O R 2 105 O R 2 206 O R 2 304 O R 2 305 O R 2 306 O R 2 401	54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 54 11 0125 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 10 1102 57 88 2104 57 88 2220	1p	P STIFT_WANKEL 1 PINN STK P STIFT_WANKEL 1 P				
D 401 D 402 D 403 D 404 D 406 D 407 D 409 D 409 D 101 D 101 D 105 D 107 D 108 D 107 D 108	50 d. 0125 50 44 0125 50 44 0125 50 44 0125 50 44 0125 50 40 0125 50 40 0125 50 40 0125 50 40 1125 50 04 0125 50 04 0125 50 04 2132 50 04 2133 50 04 2135 50 04 2135	1Nac48 1Nac48 1Nac48 1Nac48 1Nac48 1Nac48 1Nac48 1Nac48 1Nac48 1LUG 2401 1LUG 2401 1LUZ 2401	78V, 150mA, 4ns, Do-35	O P 203 O P 301 O P 302 O P 303 O P 401 O P 402 O P 403 O R 101 O R 102 O R 103 O R 104 O RZ 101 O RZ 101 O RZ 105 O RZ 106 O RZ 106 O RZ 203 O RZ 203 O RZ 206 O RZ 206 O RZ 206 O RZ 201 O RZ 206	S4 11 0125 S5 11 0125 S5 11 0125 S7 10 1102 S7 10 1102 S7 10 1102 S7 10 1102 S7 88 220	1p	P STIFT_WINNEL 1 PINN 1 STK. MF. 1%, 0204 MF				

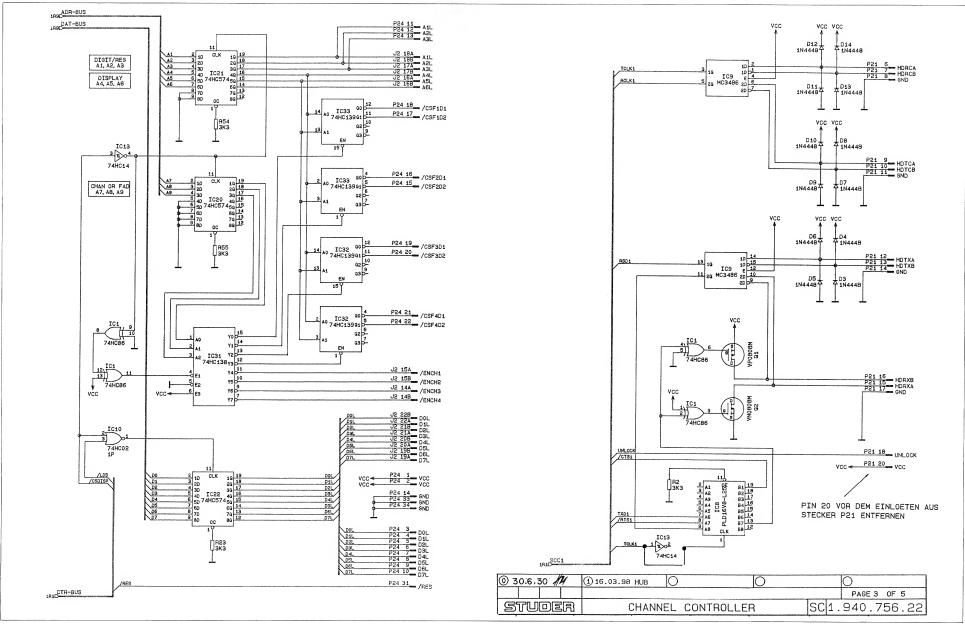




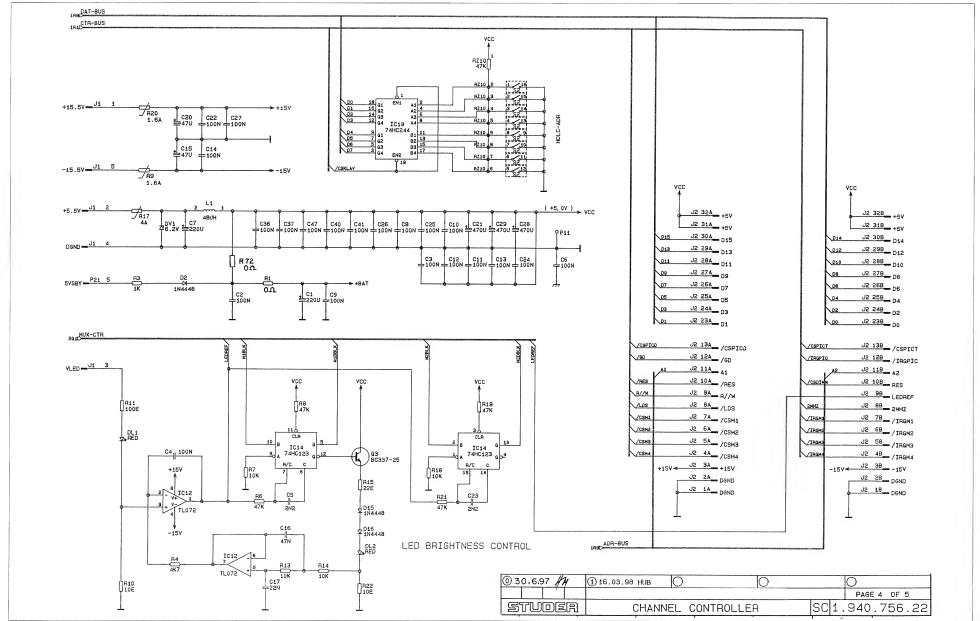




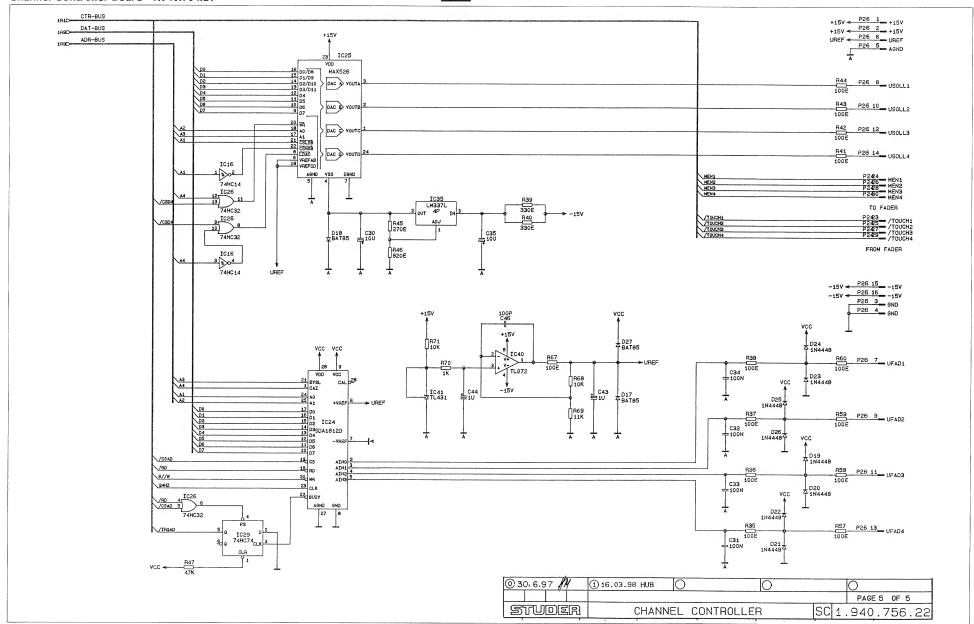


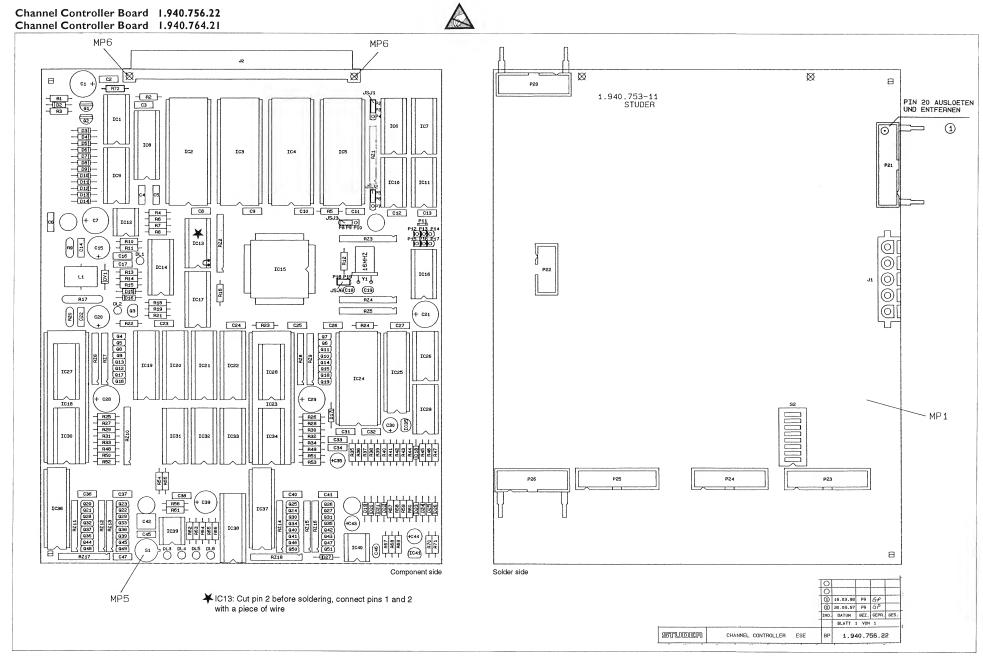
















Channel Controller Board 1.940.756.25

	Pos.	Part No.	Qty.	Type/Val.	Description	ldx.	Pos.	Part No.	Qty. Type/Val.	Description
0	C 1	59.22.5221		220u	EL 25V, 20%, RM5	0	IC 4	50.14.1010	TC551001-85	SRAM 128K * 8, 85ns
0	C 2	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 5	50.14.2009	27C1001	EPROM 128K * 8
0	C 3	59.06.0104		100n	PETP, 63V, 10%, RM5					SW HDLC EPROM 1.941.710.xx
0	C 4	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 6	50.17.1139	74HC139	- IC 74 HC 139 ., ,A
0	C 5	59.06.5222		2n2	PETP, 63V, 5%, RM5	0	IC 7	50.17.1138	74HC138,	IC 74 HC 138 ., ,A
0	C 6	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC8	50,18.0100	PLD16V8	16 V 8 D - 25 LP
0	C 7	59.22.5221		220u	EL 25V, 20%, RM5					DIP20, SW753 HDLC-GAL (1.940.915.2
0	C 8	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 9	50.15.0104	MC3486	IC MC 3486 P, DS 3486 N,
0	C 9	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 10	50.17.1002	74HC02	IC 74 HC 02 ., ,A
0	C 10	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 11	50.17.1032	74HC32	IC 74 HC 32 ., ,A
0	C 11	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 12	50.09,0101	TL072	IC TL 072 CN ,A
0	C 12	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 13	50.17.1014	74HC14	IC 74 HC 14 ., ,A
-						•	.0 ,0	30.11.1014	7411014	SEE COMMENT
0	C 13	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 14	50 17 1122	74HC123	
0	C 14	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 15	50.17.1123		
0	C 15	59.22.6470		47u	EL 40V, 20%, RM5			50.63.0100	MC68302	IC MC 68 302 FC 16 C ,A
0	C 16	59.06.5473		47n	PETP, 63V, 5%, RM5	0	IC 16	50.17.1014	74HC14	IC 74 HC 14 ., ,A
0	C 17	59.06,5223		22n	PETP, 63V, 5%, RM5	0	IC 17	50.17.1148	74HC148	IC 74 HC 148 ., ,A
0	C 18	59.34.2270		27p	CER 63V, 5%, N150	0	IC 18	50.16.0111	8279	IC IP 8279-5, ID 8279-5,
0	C 19	59.34.2270		27p	CER 63V, 5%, N150	0	IC 19	50.17.1244	74HC244	IC 74 HC 244 ., ,A
0	C 20	59.22.6470		47u	EL 40V, 20%, RM5	0	IC 20	50.17.1574	74HC574	IC 74 HC 574 ., ,A
0	C 21	59.22.3471		470u	EL 10V, 20%, RM5	0	IC 21	50.17.1574	74HC574	IC 74 HC 574 ., ,A
0	C 22	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 22	50.17.1574	74HC574	IC 74 HC 574 ., ,A
0	C 23	59.06.5222		2n2	PETP, 63V, 5%, RM5	0	IC 23	50.16.0111	8279	IC IP 8279-5, ID 8279-5,
0	C 24	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 24	50.19.0204	ADS7832	
0	C 25	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 25	50.19.0113	MAX526D	D/A Converter 12 Bit
D	C 26	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 26	50.17.1032	74HC32	IC 74 HC 32 ., ,A
0				100n	PETP, 63V, 10%, RM5	0	IC 27	50.17.1138	74HC138	IC 74 HC 138 ., ,A
	C 27	59.06.0104				0	IC 28	50.17.1163	74HC163	
0	C 28	59.22.3471		470u		0	IC 29			
0	C 29	59.22.3471		470u	EL 10V, 20%, RM5			50.17.1074	74HC74	IC 74 HC 74 ., ,A
0	C 30	59.22.6100		10u	EL 35V, 20%, RM5	0	IC 30	50.17.1138	74HC138	IC 74 HC 138 ., ,A
0	C 31	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 31	50.17.1138	74HC138	IC 74 HC 138 ., ,A
0	C 32	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 32	50.17.1139	74HC139	IC 74 HC 139 ., ,A
0	C 33	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 33	50.17.1139	74HC139	IC 74 HC 139 ., ,A
0	C 34	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 34	50.17.1138	74HC138	IC 74 HC 138 ., ,A
0	C 35	59.22.6100		10u	EL 35V, 20%, RM5	0	IC 35	50.10.0109	LM337L	IC LM 337 LZ,
0	C 36	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 36	50.17.1154	74HC154	4-to16 Line driver, DIP 24-300
0	C 37	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 37	50.17.1154	74HC154	4-to16 Line driver, DIP 24-300
0	C 38	59.06.5104		100n	PETP, 63V, 5%, RM5	0	IC 38	50.17.1244	74HC244	IC 74 HC 244 ., ,A
0	C 39			47u	EL 40V, 20%, RM5	0	IC 39	50.11.0157	TL7705B	IC TL 7705 BCP,
		59.22.6470				ō	IC 40	50.09.0101	TL072	
0	C 40	59.06.0104		100n	PETP, 63V, 10%, RM5	0	IC 41			
0	C 41	59.06.0104		100n	PETP, 63V, 10%, RM5	U	10 41	50.10.0106	TL431	IC TL 431 CLP,
0	C 42	59.06.5105		1u0	PETP, 50V, 5%, RM5	•			_	B 1 484 W 1 555
0	C 43	59.22.8109		1u	EL 50V, 20%, RM5	0	J 1	54.25.0005	5p	Buchse, 16A, vertikal, PCB
0	C 44	59.22.8109		1u	EL 50V, 20%, RM5	0	J 2	54.11.0130	32 pcs 2p	P STIFT,2R WNKL 2 PIN=1 STK.
0	C 45	59.06.5104		100n	PETP, 63V, 5%, RM5					
0	C 46	59.34.4101		100p	CER 63V, 5%, N750	0	JSJ 1	54.01.0021	Jumper	0.63 * 0.63mm
0	C 47	59.06.0104		100n	PETP, 63V, 10%, RM5	0	JSJ 2	54.01.0021	Jumper	0.63 * 0.63mm
^		50040405			ment Tage 1 1 2 2 2 2	0	JSJ 3	54.01.0021	Jumper	0.63 * 0.63mm
0	D 2	50.04.0125		1N4448	75V, 150rnA, 4ns, DO-35	0	JSJ 6	54.01.0021	Jumper	0.63 * 0.63mm
0	D 3	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35					
0	D 4	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	L1	62.03.0010	48uH	2A Torold Chocke
0	D 5	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35					
0	D 6	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	MP 1	1.940.753.11	1 mp	CHANNEL CONTROLLER PCB //\
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	MP 2	1.940.753.04	1 mp	NRETIKETTE 5 * 20
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	MP 3	1.101.001.20	1 mp Label	TEXT-ETIK. 5*20 HARDWARE -20
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	MP 4	43.01.0108	1 mp Label	ESE-WARNSCHILD
0	D 10	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	MP 5	1.010.015.50	1 mp Spacer	
0	D 11	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0				ISOLIER-SCHEIBE ZU TO 5
0	D 12	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	U	MP 6	not used	2 mp	ROHRNIETE D 2.5*0.15* 9
0	D 13	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	^	D 2	E4.0 - 000 -	4.	Di- 0 coto co
0	D 14	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	P 2	54.01.0020	1p	Pin 0.63*0.63
0	D 15	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	P 3	54.01.0020	1p	Pin 0.63*0.63
0	D 16	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	P 4	54.01.0020	1p	Pin 0.63*0.63
0	D 17	50.04.0127		BAT85	200mA, Schottky	0	P 5	54.01.0020	1p	Pin 0.63*0.63
•	D 18	50.04.0127		BAT85	200mA, Schottky	0	P 6	54.01.0020	1p	Pin 0.63*0.63
0		50.04.0127		1N4448	75V, 150mA, 4ns, DO-35	0	P 7	54.01.0020	1p	Pin 0.63*0.63
		50.04.0407		1134440		0	P 8	54.01.0020	1p	Pin 0.63*0.63
0	D 19	50.04.0125							4	Pin 0.63*0.63
0	D 19 D 20	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	P 9	54.01.0020	1p	
0 0 0	D 19 D 20 D 21	50.04.0125 50.04.0125		1N4448 1N4448	75V, 150mA, 4ns, DO-35	0	P 9 P 10	54.01.0020 54.01.0020	1p 1p	Pin 0.63*0.63
0 0 0	D 19 D 20 D 21 D 22	50.04.0125 50.04.0125 50.04.0125		1N4448 1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35					Pin 0.63*0.63 Flatpin, 2.8*0.8mm
0 0 0 0	D 19 D 20 D 21 D 22 D 23	50.04.0125 50.04.0125 50.04.0125 50.04.0125		1N4448 1N4448 1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0	P 10	54.01.0020	1p 1p	
0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125		1N4448 1N4448 1N4448 1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0	P 10 P 11	54.01.0020 54.02.0320	1p 1p 1p	Flatpin, 2.8*0.8mm
0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0	P 10 P 11 P 12	54.01.0020 54.02.0320 54.01.0020 54.01.0020	1p 1p 1p 1p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63
0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125		1N4448 1N4448 1N4448 1N4446 1N4448 1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0	P 10 P 11 P 12 P 13	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020	1p 1p 1p 1p 1p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020	1p 1p 1p 1p 1p 1p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT85	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky	0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	1p 1p 1p 1p 1p 1p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
0 0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT85	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky	0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	1p 1p 1p 1p 1p 1p 1p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT85	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky	0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	1p 1p 1p 1p 1p 1p 1p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pln 0.63*0.63 Pln 0.63*0.63 Pln 0.63*0.63 Pln 0.63*0.63 Pln 0.63*0.63
0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT85	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky	0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	1p 1p 1p 1p 1p 1p 1p 1p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
0 0 0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT85 LS3360 LS3360 LS3360	75V, 150mA, 4ns, DO-35 200mA, Schottky DL LS 3360 , RT DIFF DL LS 3360 , RT DIFF DL LS 3360 , RT DIFF	0 0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	1p 1p 1p 1p 1p 1p 1p 1p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
0 0 0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT65 LS3360 LS3360 LS3360 LS3360	75V, 150mA, 4ns, DO-35 200mA, Schottky DL LS 3360 , RT DIFF	0 0 0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 21	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.14.2102 54.14.2103	1p 20p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.65 P STECKER 16 P,AU,VR,GERADE P STECKER 20 P,AU,VR,GERADE
0 0 0 0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 DL 5	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129 50.04.2129 50.04.2129		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 EAT85 LS3360 LS3360 LS3360 LG3360	75V, 150mA, 4ns, DO-35 200mA, Schottky DL LS 3360 , RT DIFF	0 0 0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 21 P 22	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.14.2103 54.14.2103	1p 20p 10p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63
0 0 0 0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT65 LS3360 LS3360 LS3360 LS3360	75V, 150mA, 4ns, DO-35 200mA, Schottky DL LS 3360 , RT DIFF	0 0 0 0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 21 P 22 P 23	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.11.0020 54.11.0020 54.11.0020 54.11.2102 54.11.2103 54.11.2001	1p 10 10 10 100 10	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63 P STECKER 16 P,AU,VR,GERADE P STECKER 20 P,AU,VR,GERADE 1/20* Au, gerade, ohne Verrieg P 1/40*, 40 P, AU, PRINT
0 0 0 0 0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 DL 5 DL 6	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.2129 50.04.2129 50.04.2129 50.04.2131 50.04.2130		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT85 LS3360 LS3360 LS3360 LS3360 LY3360	75V, 150mA, 4ns, DO-35 200mA, Schottky DL LS 3360, RT DIFF DL LS 3360, GN DIFF DL LS 3360, GN DIFF DL LS 3360, GN DIFF	0 0 0 0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 21 P 22 P 23 P 24	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.14.2103 54.14.2103	1p 20p 10p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63
0 0 0 0 0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 DL 5	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129 50.04.2129 50.04.2129		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 EAT85 LS3360 LS3360 LS3360 LG3360	75V, 150mA, 4ns, DO-35 200mA, Schottky DL LS 3360 , RT DIFF	0 0 0 0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 21 P 22 P 23	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.11.0020 54.11.0020 54.11.0020 54.11.2102 54.11.2103 54.11.2001	1p 10 10 10 100 10	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.63 P STECKER 16 P,AU,VR,GERADE P STECKER 20 P,AU,VR,GERADE 1/20* Au, gerade, ohne Verrieg P 1/40*, 40 P, AU, PRINT
0 0 0 0 0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 DL 5 DL 6 DV 1	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2131 50.04.2131 50.04.2131		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT85 LS3360 LS3360 LS3360 LS3360 LS3360 LS3360	75V, 150mA, 4ns, DO-35 200mA, Schottky DL LS 3380 , RT DIFF DL LS 3380 , GN DIFF DL LY 3380 , GB DIFF Zener, 5%, 1.3W, DO-41	0 0 0 0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 21 P 22 P 23 P 24	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	1p 10 1p 10 400	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 1.63*0.63 Pin 1.64*0.63*0.63 P STECKER 16 P,AU,VR,GERADE P STECKER 20 P,AU,VR,GERADE 1/20* Au, gerade, ohne Verrieg P 1/40*, 40 P, AU, PRINT P 1/40*, 40 P, AU, PRINT P 1/40*, 40 P, AU, PRINT
000000000000000000000000000000000000000	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 DL 5 DL 6 DV 1 IC 1	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129 50.04.2131 50.04.2131 50.04.2131		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT85 LS3360 LS3360 LS3360 LS3360 LS3360 LS3360 LS3360 LS3360 LS3360 LS3402 474HC86	75V, 150mA, 4ns, DO-35 200mA, Schottky DL LS 3360, RT DIFF DL LS 3360, GN DIFF DL LS 3360, GN DIFF DL LY 3360, GB DIFF Zener, 5%, 1.3W, DO-41 IC 74 HC 86., A	0 0 0 0 0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 21 P 22 P 23 P 24 P 25	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.14.203 54.14.2103 54.14.203 54.14.203 54.16.0534 54.16.0534	1p 1	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.64 Pin 0.63*0.64 P STECKER 16 P,AU,VR,GERADE P STECKER 20 P,AU,VR,GERADE 1/20* Au, gerade, ohne Verrieg P 1/40*, 40 P, AU, PRINT P 1/40*, 34 P, AU, PRINT
0 0 0 0 0 0 0 0 0 0 0 0 0	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 DL 5 DL 6 DV 1	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2131 50.04.2131 50.04.2131		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT85 LS3360 LS3360 LS3360 LS3360 LS3360 LS3360	75V, 150mA, 4ns, DO-35 200mA, Schottky DL LS 3360, RT DIFF DL LS 3360, GN DIFF DL LY 3380, GN DIFF DL LY 3380, GB DIFF Zener, 5%, 1.3W, DO-41 IC 74 HC 86, A EPROM 128K*8	0 0 0 0 0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 21 P 22 P 23 P 24 P 25	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.14.203 54.14.2103 54.14.203 54.14.203 54.16.0534 54.16.0534	1p 1	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 1.63*0.63 Pin 1.64*0.40 P STECKER 16 P,AU,VR,GERADE P STECKER 20 P,AU,VR,GERADE 1/20* Au, gerade, ohne Verrieg P 1/40*, 40 P, AU, PRINT P 1/40*, 34 P, AU, PRINT P 1/40*, 40 P, AU, PRINT
000000000000000000000000000000000000000	D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 DL 5 DL 6 DV 1 IC 1	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129 50.04.2131 50.04.2131 50.04.2131		1N4448 1N4448 1N4448 1N4448 1N4448 1N4448 BAT65 LS3360 LS3360 LS3360 LS3360 LS3360 LS3360 CS3360 LS3360 LS3360 LS3360 LS3360 LS3360	75V, 150mA, 4ns, DO-35 200mA, Schottky DL LS 3360, RT DIFF DL LS 3360, GN DIFF DL LS 3360, GN DIFF DL LY 3360, GB DIFF Zener, 5%, 1.3W, DO-41 IC 74 HC 86., A	0 0 0 0 0 0 0 0 0 0 0 0	P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 21 P 22 P 23 P 24 P 25 P 26	54.01.0020 54.02.0320 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.14.2102 54.14.2103 54.14.2010 54.16.0540 54.16.0540 54.16.0540 54.14.2102	1p 40p 34p 40p 16p	Flatpin, 2.8*0.8mm Pln 0.63*0.63 Pin 0.63*0.83 Pin 0.63*0.





Channel Controller Board 1.940.756.25

	os.	Part No.	Qty. Type/Val.	Description	ldx.	Pos.	Part No.	Qty.	Type/Val.	Description
	2 3	50.43.0340		Q BC 337-25,	0	R 38	57.11.3101		100R	MF, 1%, 0207
	2 4	50.03.0523	ZTX651	ZTX 651	0	R 39	57.11.3331		330R	MF, 1%, 0207
	25	50.03.0523	ZTX651	ZTX 651	0	R 40	57.11.3331		330R	MF, 1%, 0207
	26	50.03,0523	ZTX651	ZTX 651	0	R 41	57.11.3101		100R	MF, 1%, 0207
	27	50.03.0523	ZTX651	ZTX 651	0	R 42	57.11.3101		100R	MF, 1%, 0207
	28	50.03.0523	ZTX651	ZTX 651	0	R 43	57.11.3101		100R	MF, 1%, 0207
	29	50.03.0523	ZTX651	ZTX 651	0	R 44	57.11.3101		100R	
	2 10		ZTX651	ZTX 651	0	R 45				MF, 1%, 0207
		50.03.0523					57.11.3271		270R	MF, 1%, 0207
	2 11	50.03.0523	ZTX651	ZTX 651	0	R 46	57.11.3821		820R	MF, 1%, 0207
	2 12	50.03.0523	ZTX651	ZTX 651	0	R 47	57.11.3473		47k	MF, 1%, 0207
(ב 13	50.03.0523	ZTX651	ZTX 651	0	R 48	57.11.3220		22R	MF, 1%, 0207
	2 14	50.03.0523	ZTX651	ZTX 651	0	R 49	57.11.3220		22R	MF, 1%, 0207
	Q 15	50.03.0523	ZTX651	ZTX 651	0	R 50	57 11.3220		2 2R	MF, 1%, 0207
ĺ	2 16	50.03.0523	ZTX651	ZTX 651	0	R 51	57.11.3220		22R	MF, 1%, 0207
	Q 17	50.03.0523	ZTX651	ZTX 651	0	R 52	57.11.3220		22R	MF, 1%, 0207
	2 18	50.03.0523	ZTX651	ZTX 651	0	R 53	57.11.3220		22R	MF, 1%, 0207
	2 19	50.03.0523	ZTX651	ZTX 651	0	R 54	57.11,3332		3k3	MF, 1%, 0207
					0	R 55				
	20	50.03.0352	ZTX751S	ZTX 751 S			57.11.3332		3k3	MF, 1%, 0207
	2 21	50.03.0352	ZTX751S	ZTX 751 S	0	R 56	57.11.3221		220R	MF, 1%, 0207
	22	50.03.0352	ZTX751S	ZTX 751 S	. 0	R 57	57.11.3101		100R	MF, 1%, 0207
	23	50.03.0352	ZTX751S	ZTX 751 S	0	R 58	57.11.3101		100R	MF, 1%, 0207
	2.4	50.03.0352	ZTX751S	ZTX 751 S	0	R 59	57.11.3101		100R	MF, 1%, 0207
	25	50.03.0352	ZTX751S	ZTX 751 S	0	R 60	57.11.3101		100R	MF, 1%, 0207
	2 26	50.03.0352	ZTX751S	ZTX 751 S	0	R 61	57.11.3100		10R	MF, 1%, 0207
	2 27	50.03.0352	ZTX751S		0	R 62	57.11.3332		3k3	
				ZTX 751 S						MF, 1%, 0207
	28	50.03.0352	ZTX751S	ZTX 751 S	0	R 63	57.11.3271		270R	MF, 1%, 0207
	2 29	50.03.0352	ZTX751S	ZTX 751 S	0	R 64	57.11.3271		270R	MF, 1%, 0207
	2 30	50.03.0352	ZTX751S	ZTX 751 S	0	R 65	57.11.3271		270R	MF, 1%, 0207
	2 31	50.03.0352	ZTX751S	ZTX 751 S	0	R 66	57.11.3271		270R	MF, 1%, 0207
	32	50.03.0352	ZTX751S	ZTX 751 S	0	R 67	57.11.3101		100R	MF, 1%, 0207
	2 33	50.03.0352	ZTX751S	ZTX 751 S	0	R 68	57.11.3103		10k	MF, 1%, 0207
	34	50.03.0352	ZTX751S	ZTX 751 S	0	R 69	57.11.3113		11k	MF, 1%, 0207
	35	50.03.0352	ZTX751S	ZTX 751 S	0	R 70	57.11.3102		1k0	MF, 1%, 0207
					0	R 71	57.11.3103			
	2 36	50.03.0352	ZTX751S	ZTX 751 S					10k	MF, 1%, 0207
	⊋ 37	50.03.0352	ZTX751S	ZTX 751 S	0	R 72	57.11.3000		0R0	MF, 0207
	38 🔾	50.03.0352	ZTX751S	ZTX 751 S						
(2 39	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 1	57.88.4473		8*47k	2%, SIP 9
ĺ	Q 40	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 2	57.88.4473		8*47k	2%, SIP 9
	2 41	50.03.0352	ZTX751S	ZTX 751 S	0	RZ3	57.88.4473		8*47k	2%, SIP 9
	2 42	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 4	57.88.4473		8*47k	2%, SIP 9
	2 43	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 5	57.88.4473		8*47k	2%, SIP 9
					0	RZ 6				
	2 44	50.03.0352	ZTX751S	ZTX 751 S			57.88.2221		4*220R	2%, SIP 8
	2 45	50.03.0352	ZTX751S	ZTX 751 S	U	RZ 7	57.88.2221		4*220R	2%, SIP 8
(2 46	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 8	57.88.2221		4*220R	2%, SIP 8
(Q 47	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 9	57.88.2221		4*220R	2%, SIP 8
ĺ	Q 48	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 10	57.88.4473		8*47k	2%, SIP 9
ĺ	2 49	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 11	57.88.2221		4*220R	2%, SIP 8
	2 50	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 12	57.88.2221		4*220R	2%, SIP 8
	2 51	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 13	57.88.2221		4*220R	2%, SIP 8
	201	50.05.0552	21/1010	21X /51 8						
		57 11 2000	ODO	ME 0207	0	RZ 14	57.88.2221		4*220R	2%, SIP 8
	₹1	57.11.3000	0R0	MF, 0207	0	RZ 15	57.88.2221		4*220R	2%, SIP 8
	2	57.11.3332	3k3	MF, 1%, 0207	0	RZ 16	57.88.2221		4*220R	2%, SIP 8
	₹3	57.11.3102	1k0	MF, 1%, 0207	0	RZ 17	57.88.2221		4*220R	2%, SIP 8
	₹4	57.11.3472	4k7	MF, 1%, 0207	0	RZ 18	57.88.2221		4*220R	2%, SIP 8
	₹5	57.11.3332	3k3	MF, 1%, 0207						
	8 6	57.11.3473	47k	MF, 1%, 0207	0	S 1	55.03.0122		1*a	S 1 TASTE, 1*A, PRINT, IMPULS
	7	57.11.3103	10k	MF, 1%, 0207	0	S 2	55.01.0168		8*a	SZ ,8*A, DIL
	8 8	57.11.3473	47k	MF, 1%, 0207	-					1 - 1 - 1
	₹9	57.92.7053	1.6A	POLY-PTC, 30V	0	XIC 2	53.03.0184		32p	DIL 0.6", löt, gerade
	10	57.11.3100	10R	MF, 1%, 0207	0	XIC-3	53.03.0184		32p	
										DIL 0.6", löt, gerade
	R 11	57.11.3101	100R	MF, 1%, 0207	0	XIC 4	53.03.0184		32p	DIL 0.6", löt, gerade
	₹ 12	57.11.3684	680k	MF, 1%, 0207	0	XIC 5	53.03.0184		32p	DIL 0.6", löt, gerade
	R 13	57.11.3103	10k	MF, 1%, 0207	0	XIC 8	53.03.0165		20p	DIL 0.3", löt, gerade
:	R 14	57.11.3103	10k	MF, 1%, 0207	0	XIC 9	53.03.0168		16p	DIL 0.3", löt, gerade
	R 15	57.11.3220	22R	MF, 1%, 0207	0	XIC 18	53.03.0218		1p	single-in-line
	R 16	57.11.3332	3k3	MF, 1%, 0207	0	XIC 23	53.03.0218		1p	single-in-line
	R 17				0	XIC 24	53.03.0173		28p	DIL 0.6", löt, gerade
	R 18	57.92.7058	4.0A	POLY- PTC, 30V	0	XIC 25				
		57.11.3103	10k	MF, 1%, 0207	U	AIC 23	53.03.0182		24p	DIL 0.3", löt, gerade
	R 19	57.11.3473	47k	MF, 1%. 0207	_	V 1	00 04 1777		40.00017	46,000,000,140, 110,150
	R 20	57.92.7053	1.6A	POLY- PTC, 30V	0	Y 1	89.01.1009		16.000MHz	16.000 000 MHz, HC 49/U
	₹21	57.11.3473	47k	MF, 1%, 0207						
	R 22	57.11.3100	10R	MF, 1%, 0207	-		****		End of Lis	st
	₹ 23	57.11.3332	3k3	MF, 1%, 0207	_	ama-t-				
	R 24	57.11.3332	3k3	MF, 1%, 0207		nments				
	R 25	57.11.3220	22R	MF, 1%, 0207	IC13:		OCDT 01			
	R 26	57.11.3220	22R 22R				SERT, CUT PIN 2		EDINO SIDE	
	R 27			MF, 1%, 0207	CO	NNECT	PIN 1 AND PIN 2 C	JN SOLD	EKING SIDE.	
		57.11.3220	22R	MF, 1%, 0207						
	R 28	57.11.3220	22R	MF, 1%, 0207						
	R 29	57.11.3220	22R	MF, 1%, 0207						
	30	57.11.3220	22R	MF, 1%, 0207						
	R 31	57.11.3220	22R	MF, 1%, 0207						
	R 32	57.11.3220	22R	MF, 1%, 0207						
	33	57.11.3220	22R	MF, 1%, 0207						
			22R	MF, 1%, 0207						
2		5/11 3000								
2	34	57.11.3220 57.11.3101								
2	R 34 R 35 R 36	57.11.3220 57.11.3101 57.11.3101	100R 100R	MF, 1%, 0207 MF, 1%, 0207						

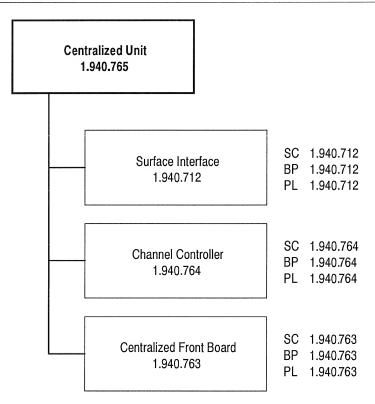
CIRCUIT DIAGRAMS SECTION 4

Centralized Unit

Centralized Unit	1.940.765
Surface Interface	1.940.712
Channel Controller	1.940.764
Cantralized Front Doord	1 040 762

Centralized Unit, Components

1.940.765



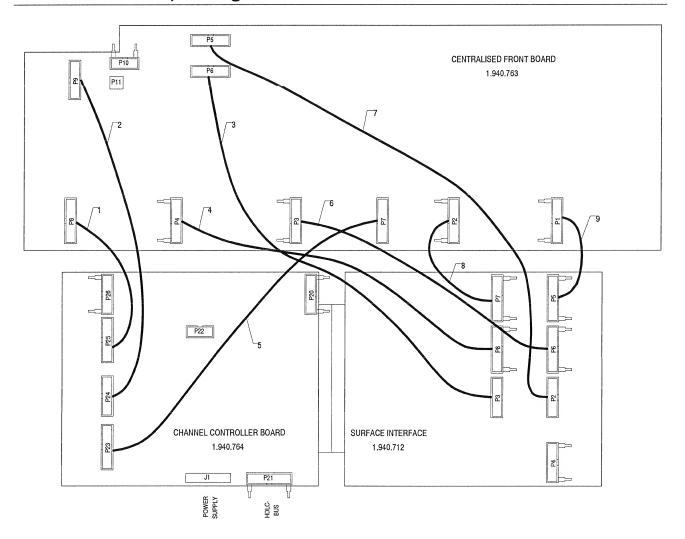
SC: Circuit Diagram

BP: Component Placement Diagram

PL: Parts List

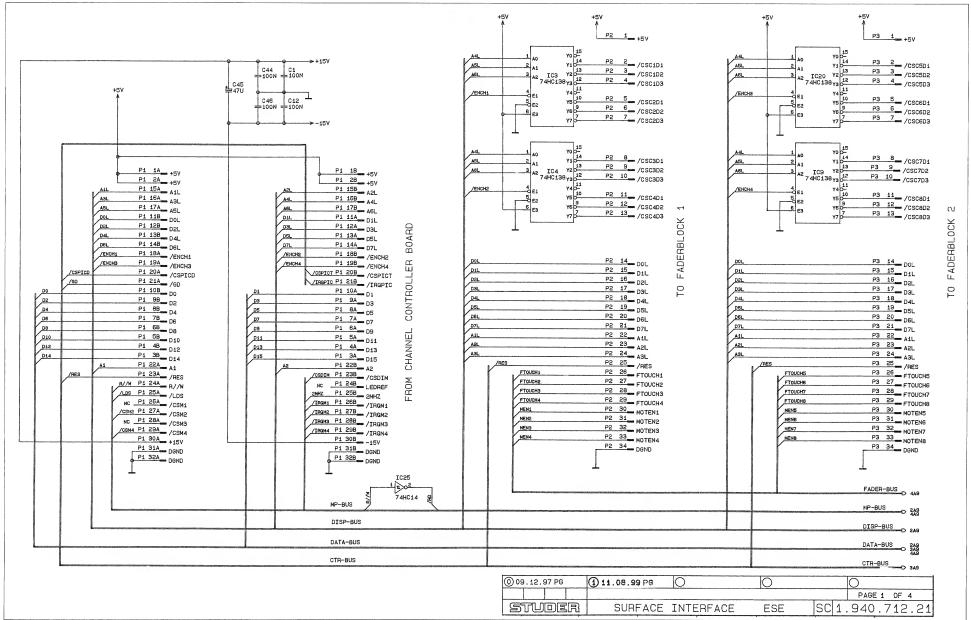
Centralized Unit, Wiring

1.940.765

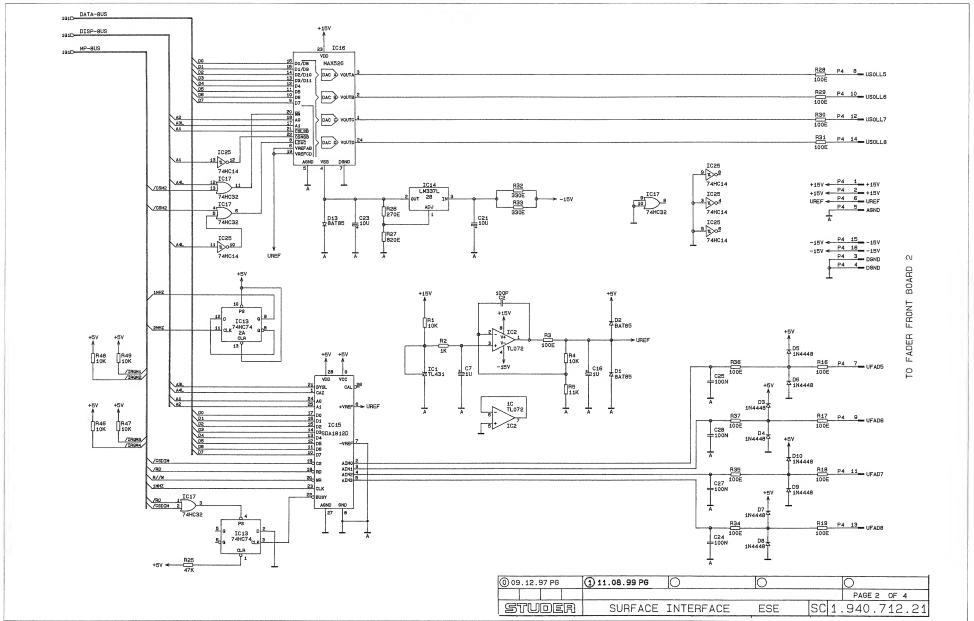


No.	Order no.	Cable	Length
1	1.023.424-01	HD 40 p	22 cm
2	1.023.423-01	HD 34 p	33 cm
3	1.023.423-02	HD 34p	36 cm
4	1.023.102-24	20 p	36 cm
5	1.023.424-02	HD 40 p	33 cm
6	1.023.102-23	20 p	33 cm
7	1.023.423-03	HD 34 p	41 cm
8	1.023.102-21	20 p	24 cm
9	1.023.102-21	20 p	24 cm

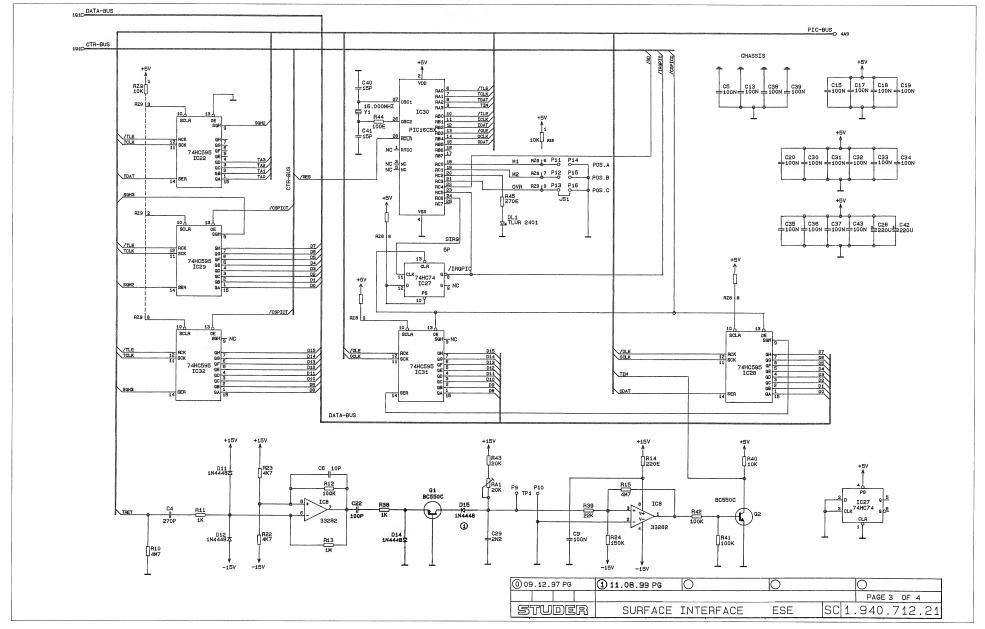






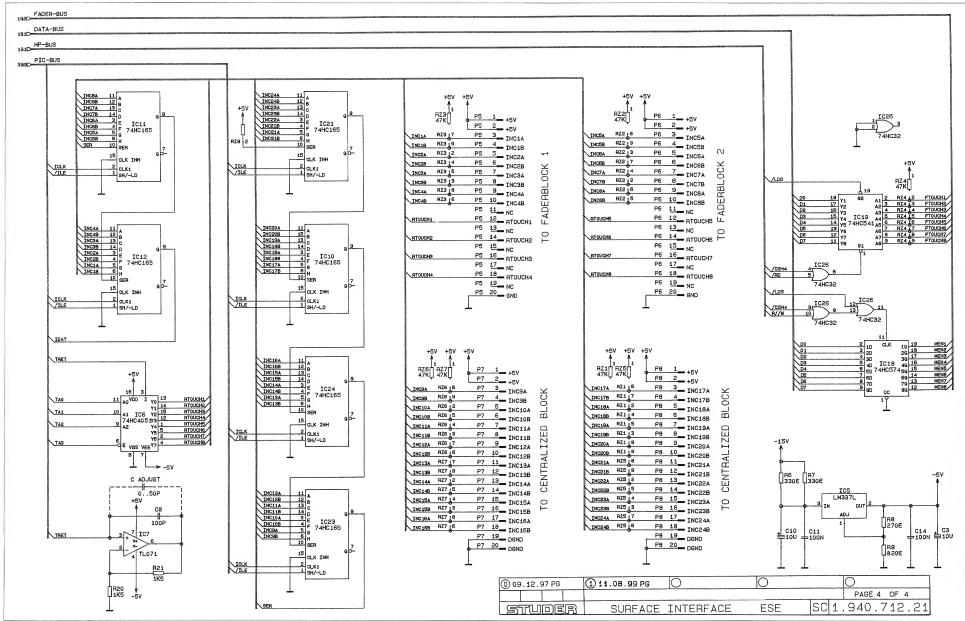




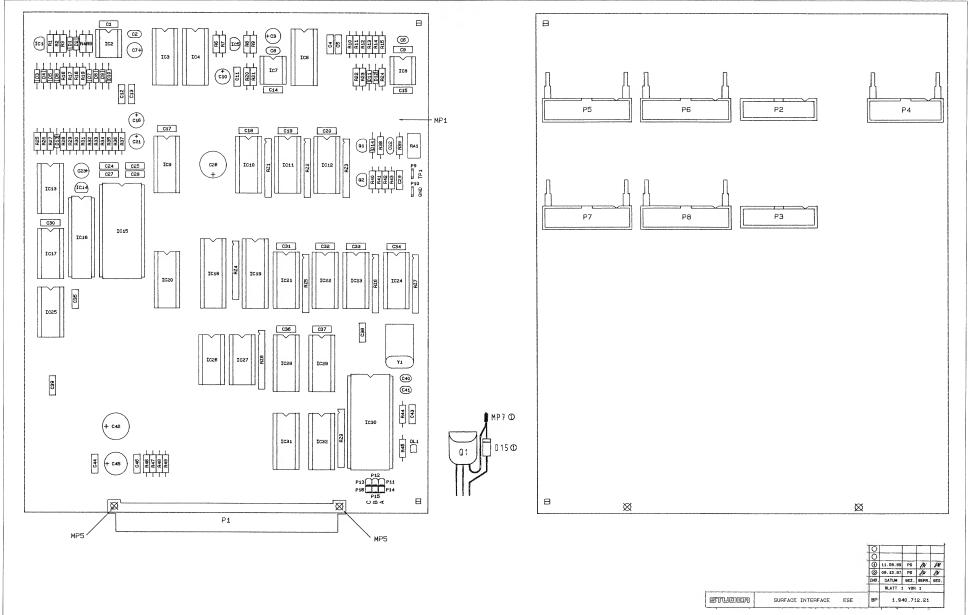








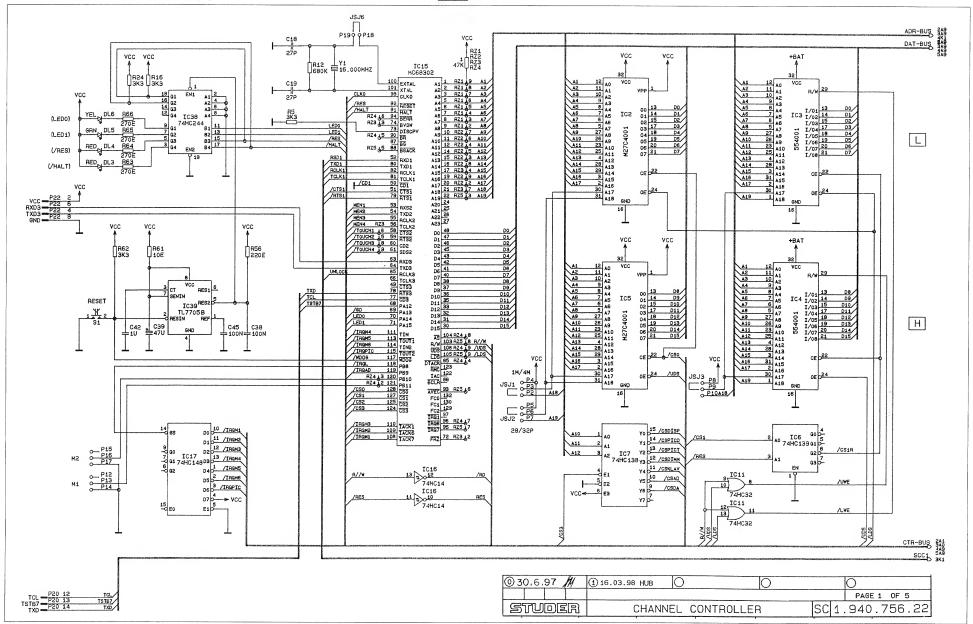




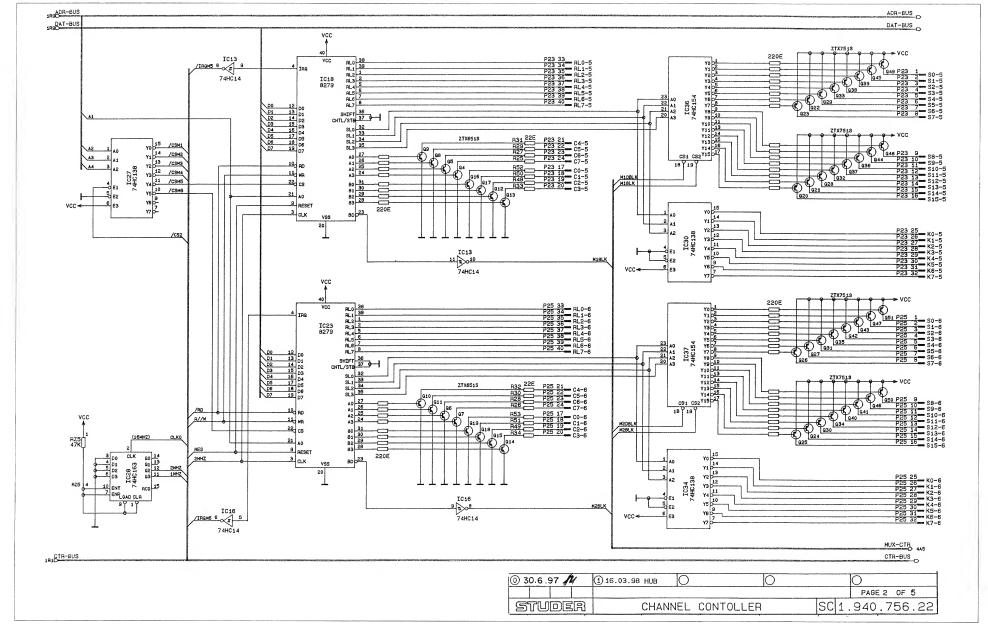


urtac	e interia	ice 1.94	0.712.21											
k. Pos.	Part No.	Qty. Type/Val.	Description	ldx. Pos.	Part No.	Qty.	Type/Val.	Description	ıdx. F	Pos.	Part No.	Qty.	Type/Val.	Description
1	59.06.0104	100n	PETP, 63V, 10%, RM5	0 IC 23	50.17.1165		74HC165	IC 74 HC 165A	0 1	R 42	57.11.3104		100k	MF. 1%, 0207
C 2	59.34.4101	100p	CER 63V, 5%, N750	0 IC 24	50.17.1165		74HC165	IC 74 HC 165 ., ,A	0 1		57.11.3203		20k	MF, 1%, 0207
C 3	59.22.6100	10u	EL 35V, 20%, RM5	0 IC 25	50.17.1014		74HC14	IC 74 HC 14 ., , ,A	0 1	R 44	57,11,3101		100R	MF, 1%, 0207
C 4	59.34.4271	270p	CER 63V, 5%, N750	0 IC 26	50.17.1032		74HC32	IC 74 HC 32 ., ,A	0		57.11.3271		270R	MF, 1%, 0207
C 5	59.06.0104	100n	PETP, 63V, 10%, RM5	0 IC 27	50.17.1074		74HC74	IC 74 HC 74 ., ,A	0 1		57.11.3103		10k	MF, 1%, 0207
C 6	59.34.1100 59.22.8109	10p 1u	CER 63V, 5%, NP 0 EL 50V, 20%, RM5	0 IC 28 0 IC 29	50.17.1595 50.17.1595		74HC595 74HC595	IC 74 HC 595 ., ,A IC 74 HC 595 ., ,A	0 1		57.11.3103 57.11.3103		10k 10k	MF, 1%, 0207 MF, 1%, 0207
C8	59,34,4101	100p	CER 63V, 5%, N750	0 IC 30	50.17.1595		74110090	IC PIC 16 C 57-HS/P ,A	0		57.11.3103		10k	MF, 1%, 0207
• •	03.04.4101	ТООР	+ cap. 050pf parallel to C8 for adjustment	0 IC 31	50.17.1595		74HC595	IC 74 HC 596 ., ,A			01.11.0100		TOR	111, 170, 0201
C 9	59.06.0104	100n	PETP, 63V, 10%, RM5	0 IC 32	50.17.1595		74HC595	IC 74 HC 595 ., ,A	0	RA 1	58.01.9203		20k	Cermet, 10%, 0.5W, vertical
C 10	59.22.6100	10u	EL 35V, 20%, RM5											
C 11	59.06.0104	100n	PETP, 63V, 10%, RM5	0 JS 1	54.01.0021		Jumper	0.63 * 0.63mm	0 1		57.88.4473		8*47k	2%, SIP 9
C 12 C 13	59.06.0104	100n	PETP, 63V, 10%, RM5	0 MP 1	1.940.712.11			SURFACE INTERFACE PCB //\	0 1		57.88.4473		8*47k	2%, SIP 9
C 13	59.06.0104 59.06.0104	100n 100n	PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 MP2 0 MP3	1.940.712.04		Label	NRETIKETTE 5 * 20 ESE-WARNSCHILD	0 1		57.88.4473 57.88.4473		8*47k 8*47k	2%, SIP 9 2%, SIP 9
C 15	59.06.0104	100n	PETP, 63V, 10%, RM5	0 MP4	1.101.001.20		Label	TEXT-ETIK, 5*20 HARDWARE -20	0 1		57.88.4473		8*47k	2%, SIP 9
C 16	59.22.8109	1u	EL 50V, 20%, RM5	0 MP 5	28.99.0119			ROHRNIETE D 2.5*0.15* 9	0 1		57.88.4473		8*47k	2%, SIP 9
C 17	59.06.0104	100n	PETP, 63V, 10%, RM5	0 MP 6	65.99.0167		Tape	POLYURH. KLEBBAND WS, 9* 3	0 1		57.88.4473		8*47k	2%, SIP 9
C 18	59.06.0104	100n	PETP, 63V, 10%, RM5	1 MP 7	29.99.0134		1.8*5	Lötspirale Cu Sn	0 1		57.88.4103		8*10k	2%, SIP 9
C 19	59.06.0104	100n	PETP, 63V, 10%, RM5	1 MP 8	43.10.0110		A	Revisions-Etikette 5mm h'blau	0 1	RZ 9	57.88.4103		8*10k	2%, SIP 9
C 20	59.06.0104	100n	PETP, 63V, 10%, RM5	0 P1 0 P2	54.11.2004		64-P	P EU-B 2 * 32	0	XIC 15	53.03.0173		28p	DIL 0.6". löt. oerade
C 21 C 22	59.22.6100 59.34.2101	10u 100p	EL 35V, 20%, RM5 CER 63V, 5%, N150	0 P2	54.16.0534 54.16.0534		34p 34p	P 1/40", 34 P, AU, PRINT P 1/40", 34 P, AU, PRINT		XIC 15	53.03.0173		28p	DIL 0.6", lot, gerade DIL 0.6", löt, gerade
C 23	59.34.2101	100p	EL 35V 20% RM5	0 P4	54.14.2102		34p 16p	P STECKER 16 P.AU.VR.GERADE	,		00.00.0170			, tot, gc. son
C 24	59.06.0104	100n	PETP, 63V, 10%, RM5	0 P5	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE	0 '	Y 1	89.01.1009		16.000MHz	16.000 000 MHz, HC 49/U
C 25	59.06.0104	100n	PETP, 63V, 10%, RM5	0 P6	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE						
C 26	59.22.4221	220u	EL 16V, 20%, RM5	0 P7	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE					End of Li	ist
C 27	59.06.0104	100n	PETP, 63V, 10%, RM5	0 P8	54.14.2103		20p	P STECKER 20 P,AU,VR,GERADE	Comi	ments				
C 28 C 29	59.06.0104 59.06.0222	100n 2n2	PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 P9 0 P10	54.02.0320 54.02.0320		1p 1p	Flatpin, 2.8*0.8mm Flatpin, 2.8*0.8mm						
C 29	59.06.0222 59.06.0104	2n2 100n	PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 P10	54.02.0320		1p 2*3p	Pin 0.63*0.63. RM2.54						
C 31	59.06.0104	100n	PETP, 63V, 10%, RM5	0 P12	not used		1p	Pin 0.63*0.63						
C 32	59.06.0104	100n	PETP, 63V, 10%, RM5					see P11						
C 33	59.06.0104	100n	PETP, 63V, 10%, RM5	0 P 13	not used		1p	Pin 0.63*0.63						
C 34	59.06,0104	100n	PETP, 63V, 10%, RM5					see P11						
C 35 C 36	59.06.0104 59.06.0104	100n 100n	PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 P 14	not used		1p	Pin 0.63*0.63 see P11						
C 37	59.06.0104	100n	PETP, 63V, 10%, RM5	0 P 15	nat used		1p	Pin 0.63*0.63						
C 38	59.06.0104	100n	PETP. 63V. 10%, RM5		not used		.,	see P11						
C 39	59.06.0104	100n	PETP, 63V, 10%, RM5	0 P 16	not used		1p	Pin 0.63*0.63						
C 40	59.34.1150	15p	CER 63V, 5%, NP 0					see P11						
C 41	59.34.1150	15p	CER 63V, 5%, NP 0											
C 42 C 43	59.22.4221	220u 100n	EL 16V, 20%, RM5	0 Q1 0 Q2	50.03.0407 50.03.0407		BC550C BC550C	BC 550 C BC 550 C						
C 44	59.06.0104	100n 100n	PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 Q2	50.03.0407		DUSSUU	BC 550 C						
C 45	59.22.8470	47u	EL 63V, 20%, RM5	0 R1	57.11.3103		10k	MF. 1%, 0207						
C 46	59.06,0104	100n	PETP, 63V, 10%, RM5	0 R2	57.11.3102		1k0	MF, 1%, 0207						
D 1	50.04.0127	BAT85	200mA. Schottky	0 R3	57.11.3101		100R	MF, 1%, 0207						
D2	50.04.0127	BAT85	200mA, Schottky 200mA, Schottky	0 R4	57.11.3103		10k	MF, 1%, 0207						
D 3	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 R5 0 R6	57.11.3113 57.11.3331		11k 330R	MF, 1%, 0207 MF, 1%, 0207						
D 4	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 R6	57.11.3331 57.11.3331		330R 330R	MF, 1%, 0207 MF, 1%, 0207						
D 5	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 R8	57.11.3331		270R	MF, 1%, 0207 MF, 1%, 0207						
D 6	50.04.0125 50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 R9	57.11.3821		820R	MF, 1%, 0207						
D /	50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 R 10	57.11.5478		4M7	MF, 5%, 0207						
D 9	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 R11	57.11.3102		1k0	MF, 1%, 0207						
D 10	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 R 12 0 R 13	57.11.3104 57.11.3105		100k 1M0	MF, 1%, 0207 MF, 1%, 0207						
D 11	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 R13	57.11.3105 57.11.3221	'	1M0 220R	MF, 1%, 0207 MF, 1%, 0207						
D 12	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 R15	57.11.5475	i	4M7	MF, 5%, 0207						
D 13 D 14	50.04.0127 50.04.0125	BAT85 1N4448	200mA, Schottky 75V, 150mA, 4ns. DO-35	0 R16	57.11.3101		100R	MF, 1%, 0207						
D 14	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 R 17	57.11.3101		100R	MF, 1%, 0207						
				0 R 18	57.11.3101		100R	MF, 1%, 0207						
DL 1	50.04.2121	TLUR 240	DI DL TLUR 2401 RT MATT	0 R 19	57.11.3101		100R	MF, 1%, 0207						
IC 1	50.10.0106	TL431	Shunt regulator	0 R 20 0 R 21	57.11.3152 57.11.3152		1k5 1k5	MF, 1%, 0207 MF, 1%, 0207						
IC 2	50.09.0101	TL072	IC TL 072 CN ,A	0 R 21	57.11.3152		1K5 4k7	MF, 1%, 0207 MF, 1%, 0207						
IC 3	50.17.1138	74HC138		0 R23	57,11,3472		4k7	MF, 1%, 0207						
IC 4 IC 5	50.17.1138 50.10.0109	74HC138 LM337L	IC 74 HC 138 ., ,A Series regulator 100mA37V	0 R 24	57.11.3154		150k	MF, 1%, 0207						
IC 6	50.10.0109	LM337L	IC 74 HC 4051 ., ,A	0 R25	57.11.3473		47k	MF, 1%, 0207						
IC 7	50.09.0103	TL071	IC TL 071 CP, ,A	0 R 26	57.11.3271		270R	MF, 1%, 0207						
IC 8	50.09.0127	MC33282	Dual Op-Amp BIFET DIP 8	0 R 27 0 R 28	57.11.3821 57.11.3101		820R 100R	MF, 1%, 0207 MF, 1%, 0207						
IC 9	50.17.1138	74HC138	IC 74 HC 138 ., ,A	0 R28	57.11.3101 57.11.3101		100R 100R	MF, 1%, 0207 MF, 1%, 0207						
IC 10	50.17.1165	74HC165	IC 74 HC 165 ., ,A	0 R 30	57.11.3101		100R	MF, 1%, 0207 MF, 1%, 0207						
IC 11 IC 12	50.17.1165 50.17.1165	74HC165 74HC165		0 R31	57.11.3101		100R	MF, 1%, 0207						
IC 12	50.17.1165	74HC165 74HC 74		0 R 32	57.11.3331		330R	MF, 1%, 0207						
IC 14	50.10.0109	LM337L	Series regulator 100mA37V	0 R 33	57.11.3331		330R	MF, 1%, 0207						
IC 15	50.19.0204	ADS7832	A/D Converter 12bit 4ch mux	0 R 34	57.11.310		100R	MF, 1%, 0207						
IC 16	not used	not used	not used	0 R 35	57.11.3101		100R	MF, 1%, 0207						
IC 17	50.17.1032	74HC 32	IC 74 HC 32 ., ,A	0 R 36 0 R 37	57.11.3101 57.11.3101		100R 100R	MF, 1%, 0207 MF, 1%, 0207						
IC 18	50.17.1574	74HC574		0 R37	57.11.3101		100R 1k0	MF, 1%, 0207 MF, 1%, 0207						
IC 19 IC 20	50.17.1541 50.17.1138	74HC541 74HC138		0 R39	57.11.3102		22k	MF, 1%, 0207 MF, 1%, 0207						
IC 21	50.17.1165	74HC165		0 R 40	57.11.3103	ı	10k	MF, 1%, 0207						
IC 22	50.17.1595	74HC595		0 R 41	57.11.3104	1	100k	MF, 1%, 0207						
		1-11-0000												

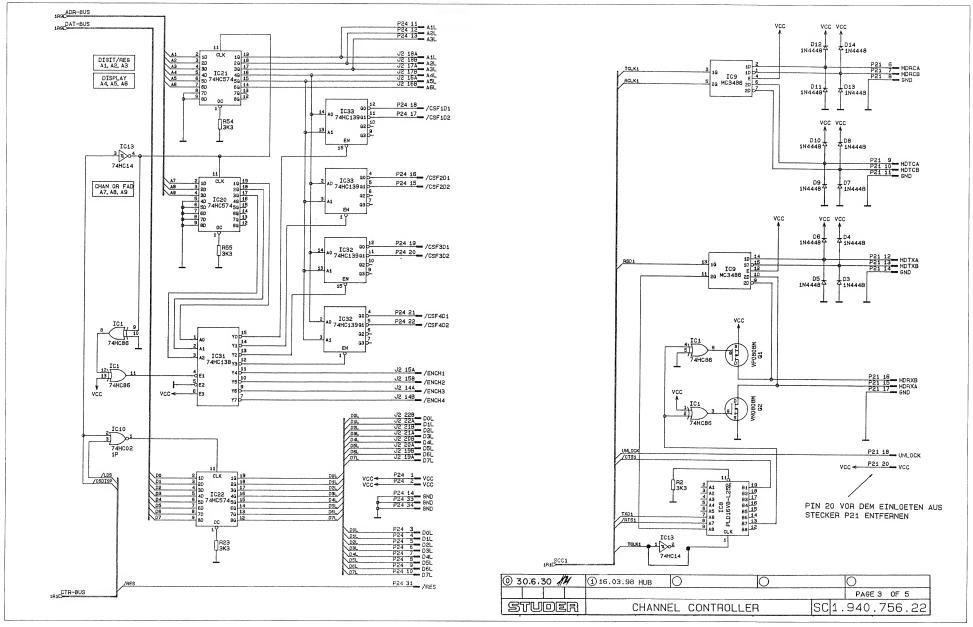




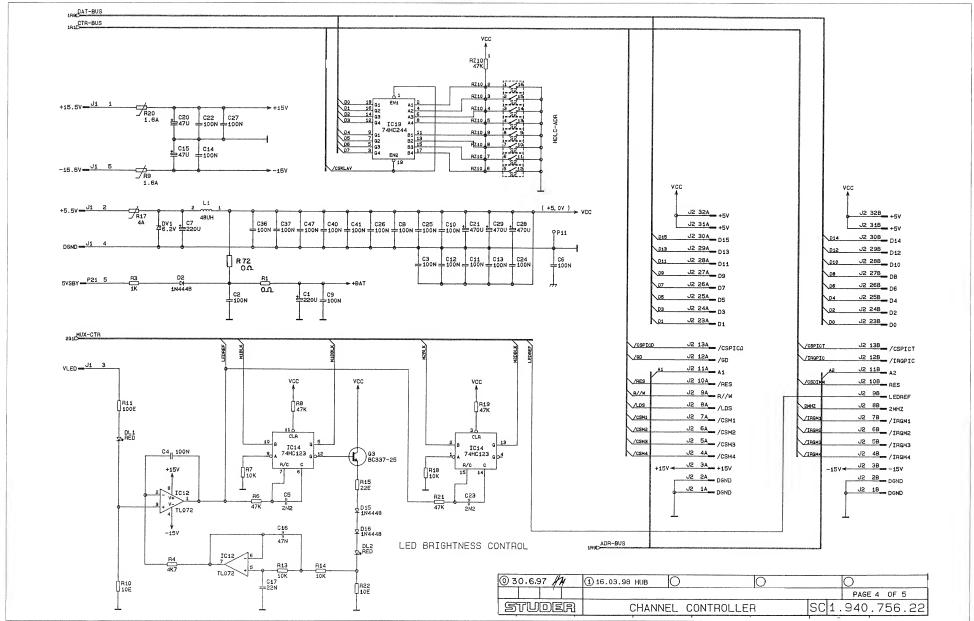




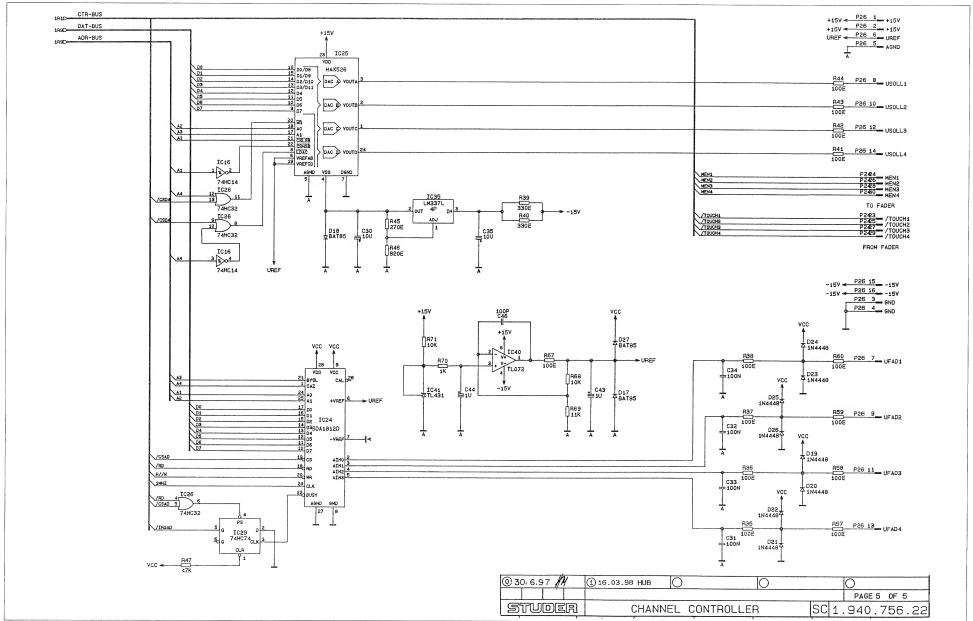


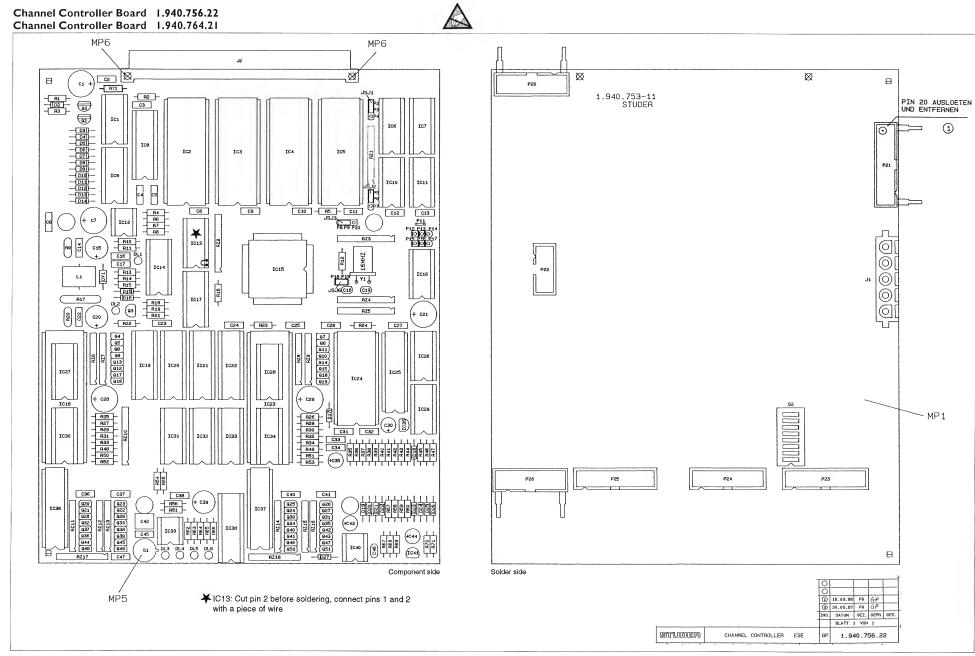
















Channel Controller Board 1.940.764.25

0	Pos.	Part No.	Qty. Type	/Val.	Description	ldx.	Pos.	Part No.	Qty.	Type/Val.	Description
	C 1	59.22.5221	220u	1	EL 25V, 20%, RM5	0	IC 4	50.14.1010		TC551001-85	SRAM 128K * 8, 85ns
	C 2	59.06.0104	100n		PETP, 63V, 10%, RM5	0	IC 5	50.14.2009		27C1001	EPROM 128K * 8
)	C3	59.06.0104	100n		PETP, 63V, 10%, RM5	·		00.11.2000		2.0.00.	SW HDLC EPROM 1.941.760.xx
						•	10.0	50 47 4400		74110400	
)	C 4	59.06.0104	100n		PETP, 63V, 10%, RM5	0	IC 6	50.17.1139		74HC139	IC 74 HC 139 ., ,A
)	C 5	59.06.5222	2n2		PETP, 63V, 5%, RM5	0	IC 7	50.17.1138		74HC138	IC 74 HC 138 ., ,A
)	C 6	59.06.0104	100n	1	PETP. 63V. 10%. RM5	0	IC 8	50.18.01.00		PLD16V8	16 V 8 D - 25 LP
)	C 7	59.22.5221	220u		EL 25V, 20%, RM5						DIP20, SW753 HDLC-GAL (1.940.915
			100			0	IC 9	E0 4E 0404		M00486	
)	C 8	59.06.0104			PETP, 63V, 10%, RM5			50.15.0104		MC3486	IC MC 3486 P, DS 3486 N,
)	C 9	59.06.0104	100n	ı	PETP, 63V, 10%, RM5	0	IC 10	50.17.1002		74HC02	IC 74 HC 02 ., ,A
)	C 10	59.06.0104	100n	1	PETP, 63V, 10%, RM5	0	IC 11	50.17.1032		74HC32	IC 74 HC 32 ., ,A
)	C 11	59.06.0104	100n		PETP, 63V, 10%, RM5	0	IC 12	50.09.0101		TL072	
)	C 12	59.06.0104	100n		PETP, 63V, 10%, RM5	0	IC 13	50.17.1014		74HC14	IC 74 HC 14 ., ,A
)	C 13	59.06.0104	100n	1	PETP, 63V, 10%, RM5						SEE COMMENT
)	C 14	59.06.0104	100n	1	PETP, 63V, 10%, RM5	0	IC 14	50.17.1123		74HC123	IC 74 HC 123 ., ,A
)	C 15	59.22.6470	47u		EL 40V, 20%, RM5	0	IC 15	50.63.0100		MC68302	10 110 00 000
)	C 16	59.06.5473	47n		PETP, 63V, 5%, RM5	0	IC 16	50.17.1014		74HC14	IC 74 HC 14 ., ,A
1	C 17	59.06.5223	22n		PETP, 63V, 5%, RM5	0	IC 17	50.17.1148		74HC148	IC 74 HC 148 ., ,A
	C 18	59.34.2270	27p		CER 63V, 5%, N150	0	IC 18	50.16.0111		8279	IC IP 8279-5, ID 8279-5,
)	C 19	59.34.2270	27p		CER 63V, 5%, N150	0	IC 19	50.17.1244		74HC244	
											IC 74 HC 244 ., ,A
)	C 20	59.22.6470	47u		EL 40V, 20%, RM5	0	IC 20	50.17.1574		74HC574	IC 74 HC 574 ., ,A
1	C 21	59.22.3471	470u	1	EL 10V, 20%, RM5	0	IC 21	50.17.1574		74HC574	IC 74 HC 574 ., ,A
	C 22	59.06.0104	100r		PETP, 63V, 10%, RM5	0	IC 22	50.17.1574		74HC574	IC 74 HC 574 ., ,A
			2n2			0	IC 23				
1	C 23	59.06.5222			PETP, 63V, 5%, RM5			50.16.0111		8279	IC IP 8279-5, ID 8279-5,
)	C 24	59.06.0104	100r		PETP, 63V, 10%, RM5	0	IC 24	50.19.0204		ADS7832	
	C 25	59.06,0104	100r	1	PETP, 63V, 10%, RM5	0	IC 25	50.19.0113		MAX526D	D/A Converter 12 Bit
	C 26	59.06.0104	100r		PETP, 63V, 10%, RM5	0	IC 26	50.17.1032		74HC32	IC 74 HC 32 ., ,A
							IC 27			74HC138	
	C 27	59.06.0104	100г		PETP, 63V, 10%, RM5			50.17.1138			IC 74 HC 138 ., ,A
)	C 28	59.22.3471	470L		EL 10V, 20%, RM5	0	IC 28	50.17.1163		74HC163	IC 74 HC 163 ., ,A
1	C 29	59.22.3471	4701	ı	EL 10V, 20%, RM5	0	IC 29	50.17.1074		74HC74	IC 74 HC 74 ., ,A
	C 30	59.22.6100	10u		EL 35V, 20%, RM5		IC 30	50.17.1138		74HC138	IC 74 HC 138 ., ,A
				1			IC 31				
	C 31	59.06.0104	100r		PETP, 63V, 10%, RM5			50.17.1138		74HC138	IC 74 HC 138 ., ,A
	C 32	59.06.0104	100r		PETP, 63V, 10%, RM5		IC 32	50.17.1139		74HC139	IC 74 HC 139 ., ,A
	C 33	59.06.0104	100r	1	PETP, 63V, 10%, RM5	0	IC 33	50.17.1139		74HC139	IC 74 HC 139 ., ,A
	C 34	59.06.0104	100r		PETP, 63V, 10%, RM5		IC 34	50.17.1138		74HC138	
,											
	C 35	59.22.6100	10u		EL 35V, 20%, RM5		IC 35	50.10.0109		LM337L	IC LM 337 LZ,
	C 36	59.06.0104	100r	1	PETP, 63V, 10%, RM5		IC 36	50.17.1154		74HC154	4-to16 Line driver, DIP 24-300
1	C 37	59.06.0104	100r	1	PETP, 63V, 10%, RM5	0	IC 37	50.17.1154		74HC154	4-to16 Line driver, DIP 24-300
,	C 38	59.06.5104	100r		PETP, 63V, 5%, RM5	0	IC 38	50.17.1244		74HC244	· ·
1	C 39	59.22.6470	47u		EL 40V, 20%, RM5		IC 39	50.11.0157		TL7705B	IC TL 7705 BCP,
1	C 40	59.06.0104	100r	1	PETP, 63V, 10%, RM5	0	IC 40	50.09.0101		TL072	IC TL 072 CN ,A
	C 41	59.06.0104	100r	1	PETP, 63V, 10%, RM5	0	IC 41	50.10.0106		TL431	IC TL 431 CLP,
,	C 42	59.06.5105	1u0		PETP, 50V, 5%, RM5						
						^	l a	E4 05 0005		-	Durch a 404 un a man
)	C 43	59.22.8109	1u		EL 50V, 20%, RM5		J 1	54.25.0005		5p	Buchse, 16A, vertikal, PCB
)	C 44	59.22.8109	1u		EL 50V, 20%, RM5	0	J 2	54.11.2010		64p	EU-Q 2*32p
1	C 45	59.06.5104	100r	n	PETP, 63V, 5%, RM5						·
)	C 46	59.34.4101	100		CER 63V, 5%, N750	0	JSJ 1	54.01.0021		Jumper	0.63 * 0.63mm
•	C 47	59.06.0104	100r	1	PETP, 63V, 10%, RM5	0	JSJ 2	54.01.0021		Jumper	0.63 * 0.63mm
	D 2	50.04.0125	1N44	448	75V, 150mA, 4ns, DO-35		JSJ 3	54.01.0021		Jumper	0.63 * 0.63mm
						0	JSJ 6	54.01.0021		Jumper	0.63 * 0.63mm
	D 3	50.04.0125	1N44		75V, 150mA, 4ns, DO-35					,	
	D4	50.04.0125	1N44	448	75V, 150mA, 4ns, DO-35	0	L1	62.02.0040		4QuLI	OA Tarrid Observe
	D 5	50.04.0125	1N44	448	75V, 150mA, 4ns, DO-35	U	L 1	62.03.0010		48uH	2A Toroid Chocke
	D 6	50.04.0125	1N44	448	75V, 150mA, 4ns, DO-35						
	D 7	50.04.0125				0	MP 1	1.940.753.11	1 mp		CHANNEL CONTROLLER PCB //\
			1N44		75V, 150mA, 4ns, DO-35	0	MP 2	1.940.753.04	1 mp		NRETIKETTE 5 * 20
	D 8	50.04.0125	1N44		75V, 150mA, 4ns, DO-35						
	D 9	50.04.0125	1N44	448	75V, 150mA, 4ns, DO-35		MP 3	1.101.001.20	1 mp		TEXT-ETIK. 5*20 HARDWARE -20
	D 10	50.04.0125	1N44		75V, 150mA, 4ns, DO-35		MP 4	43.01.0108	1 mp		ESE-WARNSCHILD
	D 11	50.04.0125	1N44		75V, 150mA, 4ns, DO-35	0	MP 5	1.010.015.50	1 mp	Spacer	ISOLIER-SCHEIBE ZU TO 5
			114-4-				MP 6	28.99.0119	2 mp		ROHRNIETE D 2.5*0.15* 9
			4814	440	75V, 150mA, 4ns, DO-35		-				
	D 12	50.04.0125	1N44			•		20.00.0110	2p		
		50.04.0125 50.04.0125	1N44 1N44		75V, 150mA, 4ns, DO-35		п.		2p	4	F'- 0 0000 00
	D 12			448		0	P 2	54.01.0020	2p		Pin 0.63*0.63
	D 12 D 13 D 14	50.04.0125	1N44 1N44	448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0	P 3	54.01.0020 54.01.0020	2p	1p	Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15	50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44	448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0		54.01.0020	2.11,6	1p	
	D 12 D 13 D 14 D 15 D 16	50.04,0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 1N44	448 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0	P 3 P 4	54.01.0020 54.01.0020 54.01.0020	2.11,6	1p 1p	Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127	1N44 1N44 1N44 1N44 BAT	448 448 448 448 85	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky	0 0 0	P 3 P 4 P 5	54.01.0020 54.01.0020 54.01.0020 54.01.0020	2.11,6	1p 1p 1p	Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16	50.04,0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 1N44	448 448 448 448 85	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky	0 0 0 0	P 3 P 4 P 5 P 6	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	2.11.p	1p 1p 1p 1p	Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127	1N44 1N44 1N44 1N44 BAT	448 448 448 448 85 85	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky	0 0 0 0	P 3 P 4 P 5 P 6 P 7	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	2.11.p	1p 1p 1p 1p 1p	Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125	1N44 1N44 1N44 1N44 BATI BATI	448 448 448 448 85 85 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35	0 0 0 0	P 3 P 4 P 5 P 6	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	2p	1p 1p 1p 1p 1p	Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125	1N44 1N44 1N44 1N44 BATI BATI 1N44	448 448 448 448 85 85 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0	P 3 P 4 P 5 P 6 P 7	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	2p	1p 1p 1p 1p 1p 1p	Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 1N44 BATI BATI 1N44 1N44	448 448 448 448 85 85 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0	P3 P4 P5 P6 P7 P8	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	2p	1p 1p 1p 1p 1p 1p	Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125	1N44 1N44 1N44 BATI 1N44 1N44 1N44	448 448 448 448 85 85 448 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0	P3 P4 P5 P6 P7 P8 P9	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	2.11.	1p 1p 1p 1p 1p 1p 1p	Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 1N44 BATI BATI 1N44 1N44	448 448 448 448 85 85 448 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 8 P 10 P 11	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.02.0320	2.11.	1p 1p 1p 1p 1p 1p 1p 1p	Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 BATI BATI 1N44 1N44 1N44	448 448 448 448 85 85 448 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0 0	P3 P4 P5 P6 P7 P8 P9 P10 P11	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	2.11.	1p 1p 1p 1p 1p 1p 1p 1p	Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 1N44 BATI 1N44 1N44 1N44 1N44	448 448 448 448 85 85 448 448 448 448 44	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 8 P 10 P 11	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.02.0320	2.11.	1p 1p 1p 1p 1p 1p 1p 1p	Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44	448 448 448 448 85 85 448 448 448 448 44	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 8 P 9 P 10 P 11 P 12 P 13	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	2.11.	1p	Pin 0.63*0.63 Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N4- 1N4- 1N4- 1N4- BAT: BAT: 1N4- 1N4- 1N4- 1N4- 1N4- 1N4- 1N4- 1N4-	448 448 448 448 85 85 85 448 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 8 P 9 P 10 P 11 P 12 P 13 P 14	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	2.11.	1p	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44	448 448 448 448 85 85 85 448 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 8 P 9 P 10 P 11 P 12 P 13 P 14 P 15	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	2.11.	1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N4- 1N4- 1N4- 1N4- BAT: BAT: 1N4- 1N4- 1N4- 1N4- 1N4- 1N4- 1N4- 1N4-	448 448 448 448 85 85 85 448 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 9 P 10 P 11 P 12 P 13 P 15 P 16	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	p	1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44 1N44 BAT:	448 448 448 448 85 85 8448 448 448 448 4	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 8 P 9 P 10 P 11 P 12 P 13 P 14 P 15	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44 1N44 1N44 BAT:	448 448 448 458 458 448 448 448 448 448	75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 8 P 9 P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020	p	1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44 1N44 BAT:	448 448 448 458 458 448 448 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 9 P 10 P 11 P 13 P 14 P 15 P 16 P 17 P 18	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27	50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44 1N44 1N44 BAT:	448 448 448 448 85 85 85 4448 448 448 44	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 9 10 11 11 P 12 13 14 15 16 17 18 P P 19 19 19 19 19 19 19 19 19 19 19 19 19 1	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125	1N44 1N44 1N44 1N44 BAT: 1N44 1N44 1N44 1N44 1N44 1N44 1N44 EAT: LS33 LS33	448 448 448 448 448 85 85 85 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 9 P 10 P 11 P 13 P 14 P 15 P 16 P 17 P 18	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127	1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44 1N44 BAT: LS33 LS33 LS33	448 448 448 448 85 85 85 448 448 448 448	75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 9 10 11 11 P 12 13 14 15 16 17 18 P P 19 19 19 19 19 19 19 19 19 19 19 19 19 1	54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129 50.04.2129 50.04.2129	1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44 1N44 1N44 1N4	448 448 448 448 85 85 85 448 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	P 3 P 4 P 5 P 6 P 7 P 9 P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 17 P 19 P 20 P 21	54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127	1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44 1N44 BAT: LS33 LS33 LS33	448 448 448 448 85 85 85 448 448 448 448	75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4		P 3 P 4 P 5 P 6 P 7 P 9 P 10 P 11 P 12 P 14 P 15 P 16 P 17 P 18 P P 20 P 21 P 22	54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129 50.04.2129 50.04.2129	1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44 1N44 1N44 1N4	448 448 448 448 85 85 85 448 448 448 448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4		P 3 P 4 P 5 P 6 P 7 P 9 P 10 P 11 P 12 P 14 P 15 P 16 P 17 P 18 P P 19 P 19 P 20 P 22 P 23	54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63 Pi
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 DL 5 DL 6	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129 50.04.2131 50.04.2130	1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44 1N44 BAT: LS33 LS33 LS33 LS33 LS33	448 448 448 448 85 85 8448 448 448 448 4	75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 T6V, 150mA, 4		P 3 P 4 P 5 P 6 P 7 P 9 P 10 P 11 P 12 P 14 P 15 P 16 P 17 P 18 P P 20 P 21 P 22	54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.2129 50.04.2129 50.04.2129 50.04.2129 50.04.2129	1N44 1N44 1N44 BAT: BAT: 1N44 1N44 1N44 1N44 1N44 1N44 1N44 1N4	448 448 448 448 85 85 8448 448 448 448 4	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 75V, 150mA, 4		P 3 P 4 P 5 P 7 P 8 P 9 10 P 11 P 12 P 14 P 15 P 17 P 18 P 19 P 22 P 22 P 24	54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63 Pi
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 20 D 21 D 22 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 DL 5 DL 6	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127	1N44 1N44 1N44 1N44 BAT: 1N44 1N44 1N44 1N44 1N44 1N44 1N44 1N4	448 448 448 448 85 85 448 448 448 448 44	75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 DL LS 3360, RT DIFF		P 3 P 4 P 5 P 7 P 8 P 9 P 10 P 112 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 22 P 22 P 22 P 22 P 25	54.01.0020 54.01.0020	- T	1p 1	Pin 0.63*0.63 Pi
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 L 5 DL 6 DV 1 IC 1	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.2129 50.04.2129 50.04.2129 50.04.2131 50.04.2131	1N44 1N44 1N44 1N44 1N44 1N44 1N44 1N44	448 448 448 448 85 85 86 448 448 448 448 448 448 448 360 360 360 360 360	75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 200mA, Schottky 200mA, Schottky 200mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150m		P 3 P 4 P 5 P 7 P 8 P 9 10 P 11 P 12 P 14 P 15 P 17 P 18 P 19 P 22 P 22 P 24	54.01.0020 54.01.0020	- T	1p 1	Pin 0.63*0.63 Pi
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 20 D 21 D 22 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 DL 5 DL 6	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0127	1N44 1N44 1N44 1N44 BAT: 1N44 1N44 1N44 1N44 1N44 1N44 1N44 1N4	448 448 448 448 85 85 86 448 448 448 448 448 448 448 360 360 360 360 360	75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 75V, 150mA, 4ns, DO-35 DL LS 3360, RT DIFF		P 3 P 4 P 5 P 6 P 7 P 8 P 9 P 10 P 11 P 12 P 13 P 14 P 15 P 16 P 19 P 20 P 20 P 22 P 23 P 24 P 26	54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63 Pi
	D 12 D 13 D 14 D 15 D 16 D 17 D 18 D 19 D 20 D 21 D 22 D 23 D 24 D 25 D 26 D 27 DL 1 DL 2 DL 3 DL 4 L 5 DL 6 DV 1 IC 1	50.04.0125 50.04.0125 50.04.0125 50.04.0127 50.04.0127 50.04.0127 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.0125 50.04.2129 50.04.2129 50.04.2129 50.04.2131 50.04.2131	1N44 1N44 1N44 1N44 1N44 1N44 1N44 1N44	448 448 448 448 85 85 86 448 448 448 448 448 448 448 360 360 360 360 360	75V, 150mA, 4ns, DO-35 200mA, Schottky 200mA, Schottky 200mA, Schottky 200mA, Schottky 200mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35 75V, 150m		P 3 P 4 P 5 P 7 P 8 P 9 P 10 P 112 P 13 P 14 P 15 P 16 P 17 P 18 P 19 P 20 P 22 P 22 P 22 P 22 P 25	54.01.0020 54.01.0020		1p 1	Pin 0.63*0.63 Pi



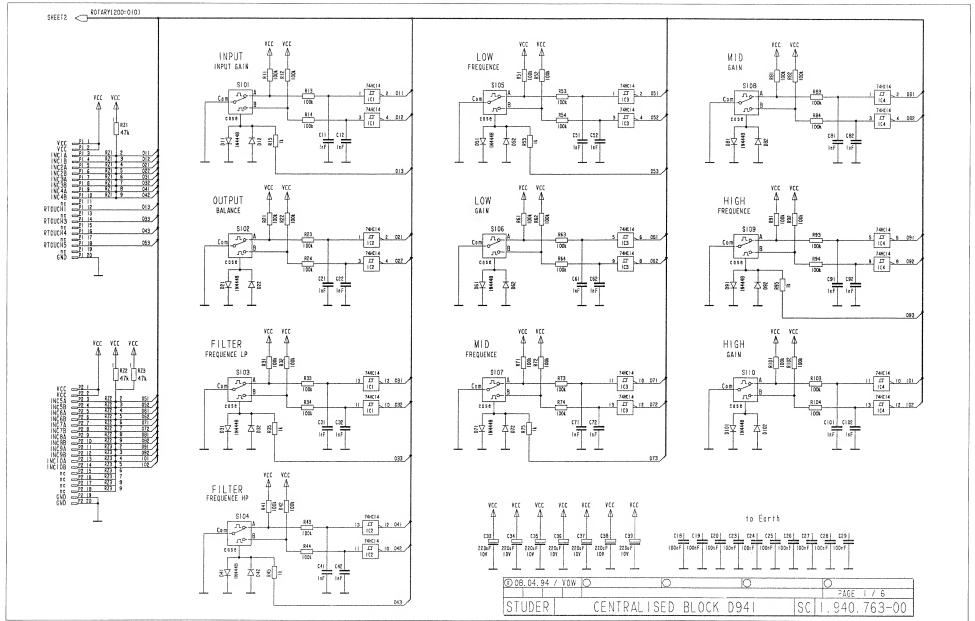


Channel Controller Board 1.940.764.25

os.	Part No. C	ty. Type/Val.	Description	- Iax.	Pos.	Part No.	Qty.	Type/Val.	Description
3 4	50.43.0340	page	Q BC 337-25,	0	R 38	57.11.3101		100R	MF, 1%, 0207
	50.03.0523	ZTX651	ZTX 651	0	R 39	57.11.3331		330R	MF, 1%, 0207
	50.03.0523	ZTX651	ZTX 651	0	R 40	57.11.3331		330R	MF, 1%, 0207
	50.03.0523	ZTX651	ZTX 651	0	R 41	57.11.3101		100R	MF, 1%, 0207
	50.03.0523	ZTX651	ZTX 651	0	R 42	57.11.3101		100R	MF, 1%, 0207
	50 03 0523	ZTX651	ZTX 651	ū	R 13	57.11.3101		100R	MF, 1%, 0207
	50.03.0523	ZTX651	ZTX 651	0	R 44	57.11.3101		100R	MF, 1%, 0207
	50.03.0523	ZTX651	ZTX 651	0	R 45	57.11.3271		270R	MF, 1%, 0207
	50.03.0523	ZTX651	ZTX 651	0	R 46	57.11.3821		820R	MF, 1%, 0207
	50.03.0523	ZTX651	ZTX 651	0	R 47	57.11.3473		47k	MF, 1%, 0207
3	50.03.0523	ZTX651	ZTX 651	0	R 48	57.11.3220		22R	MF, 1%, 0207
1	50.03.0523	ZTX651	ZTX 651	0	R 49	57.11.3220		22R	MF, 1%, 0207
5	50.03.0523	ZTX651	ZTX 651	0	R 50	57.11.3220		22R	MF, 1%, 0207
3	50.03.0523	ZTX651	ZTX 651	0	R 51	57.11.3220		22R	MF, 1%, 0207
7	50.03.0523	ZTX651	ZTX 651	0	R 52	57.11.3220		22R	MF, 1%, 0207
В	50.03.0523	ZTX651	ZTX 651	0	R 53	57.11.3220		22R	MF, 1%, 0207
9	50.03.0523	ZTX651	ZTX 651	0	R 54	57.11.3332		3k3	MF, 1%, 0207
)	50.03.0352	ZTX751S	ZTX 751 S	0	R 55	57.11.3332		3k3	MF, 1%, 0207
1	50.03.0352	ZTX751S	ZTX 751 S	0	R 56	57.11.3221		220R	MF, 1%, 0207
2	50.03.0352	ZTX751S	ZTX 751 S	0	R 57	57.11.3101		100R	MF, 1%, 0207
3	50.03.0352	ZTX751S	ZTX 751 S	0	R 58	57.11.3101		100R	MF, 1%, 0207
Ļ	50.03.0352	ZTX751S	ZTX 751 S	0	R 59	57.11.3101		100R	MF, 1%, 0207
5	50.03.0352	ZTX751S	ZTX 751 S	0	R 60	57.11.3101		100R	MF, 1%, 0207
6	50.03.0352	ZTX751S	ZTX 751 S	0	R 61	57.11.3100		10R	MF, 1%, 0207
•	50.03.0352	ZTX751S	ZTX 751 S	0	R 62	57.11.3332		3k3	MF, 1%, 0207
}	50.03.0352	ZTX751S	ZTX 751 S	0	R 63	57.11.3271		270R	MF, 1%, 0207
)	50.03.0352	ZTX751S	ZTX 751 S	0	R 64	57.11.3271		270R	MF, 1%, 0207
)	50.03.0352	ZTX751S	ZTX 751 S	0	R 65	57.11.3271		270R	MF, 1%, 0207
	50.03.0352	ZTX751S	ZTX 751 S	0	R 66	57.11.3271		270R	MF, 1%, 0207
	50.03.0352	ZTX751S	ZTX 751 S	0	R 67	57.11.3101		100R	MF, 1%, 0207
	50.03.0352	ZTX751S	ZTX 751 S	0	R 68	57.11.3103		10k	MF, 1%, 0207
	50.03.0352	ZTX751S	ZTX 751 S	0	R 69	57.11.3113		11k	MF, 1%, 0207
	50.03.0352	ZTX751S	ZTX 751 S	0	R 70	57.11.3102		1k0	MF, 1%, 0207
	50.03.0352	ZTX751S	ZTX 751 S	0	R 71	57.11.3102		10k	
	50.03.0352	ZTX751S	ZTX 751 S	0	R 72				MF, 1%, 0207
7 3	50.03.0352	ZTX751S	ZTX 751 S	U	17.72	57.11.3000		0R0	MF, 0207
9	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 1	67 00 4470		0*476	29/ 510.0
)	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 2	57.88.4473		8*47k	2%, SIP 9
	50.03.0352	ZTX751S	ZTX 751 S	0		57.88.4473		8*47k	2%, SIP 9
2	50.03.0352	ZTX751S			RZ 3	57.88.4473		8*47k	2%, SIP 9
			ZTX 751 S	0	RZ 4	57.88.4473		8*47k	2%, SIP 9
	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 5	57.88.4473		8*47k	2%, SIP 9
	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 6	57.88.2221		4*220R	2%, SIP 8
,	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 7	57.88.2221		4*220R	2%, SIP 8
	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 8	57.88.2221		4*220R	2%, SIP 8
	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 9	57.88.2221		4*220R	2%, SIP 8
3	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 10	57.88.4473		8*47k	2%, SIP 9
)	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 11	57.88.2221		4*220R	2%, SIP 8
)	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 12	57.88.2221		4*220R	2%, SIP 8
1	50.03.0352	ZTX751S	ZTX 751 S	0	RZ 13	57.88.2221		4*220R	2%, SIP 8
				0	RZ 14	57.88.2221		4*220R	2%, SIP 8
	57.11.3000	0R0	MF, 0207	0	RZ 15	57.88.2221		4*220R	2%, SIP 8
	57.11.3332	3k3	MF, 1%, 0207	0	RZ 16	57.88.2221		4*220R	2%, SIP 8
	57.11.3102	1k0	MF, 1%, 0207	0	RZ 17	57.88.2221		4*220R	2%, SIP 8
	57.11.3472	4k7	MF, 1%, 0207	0	RZ 18	57.88,2221		4*220R	2%, SIP 8
	57.11.3332	3k3	MF, 1%, 0207						
	57.11.3473	47k	MF, 1%, 0207	0	S 1	55.03.0122		1*a	S 1 TASTE, 1*A, PRINT, IMPUL
	57.11.3103	10k	MF, 1%, 0207	0	S 2	55.01.0168		8*a	SZ , 8*A, DIL
	57.11.3473	47k	MF, 1%, 0207						
	57.92.7013	0.5A	POLY- PTC, 60V	0	XIC 2	53.03.0184		32p	DIL 0.6", löt, gerade
	57.11.3100	10R	MF, 1%, 0207	0	XIC 3	53.03.0184		32p	DIL 0.6", löt, gerade
	57.11.3101	100R	MF, 1%, 0207	0	XIC 4	53.03.0184		32p	DIL 0.6", löt, gerade
	57.11.3684	680k	MF, 1%, 0207	0	XIC 5	53.03.0184		32p	DIL 0.6", löt, gerade
	57.11.3103	10k	MF, 1%, 0207	0	XIC 8	53.03,0165		20p	DIL 0.3", löt, gerade
	57.11.3103	10k	MF, 1%, 0207	0	XIC 9	53.03.0168		16p	DIL 0.3", löt, gerade
	57.11.3220	22R	MF, 1%, 0207	0	XIC 18	53.03.0218		1p	single-in-line
	57.11.3332	3k3	MF, 1%, 0207	0	XIC 23	53.03.0218		1p	single-in-line
	57.92.7058	4,0A	POLY- PTC, 30V	0	XIC 24	53.03.0173		28p	DIL 0.6", löt, gerade
	57.11.3103	10k	MF, 1%, 0207	0	XIC 25	53.03.0182		24p	DIL 0.3", löt, gerade
	57.11.3473	47k	MF, 1%, 0207						· -
	57.92.7013	0.5A	POLY- PTC, 60V	0	Y 1	89.01.1009		16.000MHz	16.000 000 MHz, HC 49/U
	57.11.3473	47k	MF, 1%, 0207						***
	57.11.3100	10R	MF, 1%, 0207	***************************************				End of Li	st
	57.11.3332	3k3	MF, 1%, 0207	_		-		- Lina Oi Li	
	57.11.3332	3k3	MF, 1%, 0207		nments				
	57.11.3220	22R	MF, 1%, 0207	IC13:		CEDT OUT DIE			
	57.11.3220	22R	MF, 1%, 0207			SERT, CUT PIN 2 PIN 1 AND PIN 2 (JEDING SIDE	
	57.11.3220	22R	MF, 1%, 0207	CO	NINECT	- IIV I AND PIN 2 (JN OULL	ירעוואף פוחבי	
1	57.11.3220	22R	MF, 1%, 0207						
	57.11.3220	22R	MF, 1%, 0207						
	57.11.3220	22R	MF, 1%, 0207						
	57.11.3220	22R	MF, 1%, 0207						
	57.11.3220	22R	MF, 1%, 0207						
	57.11.3220	22R	MF, 1%, 0207						
	57.11.3220	22R	MF, 1%, 0207						
	57.11.3101	100R	MF, 1%, 0207						
		100R	MF, 1%, 0207						

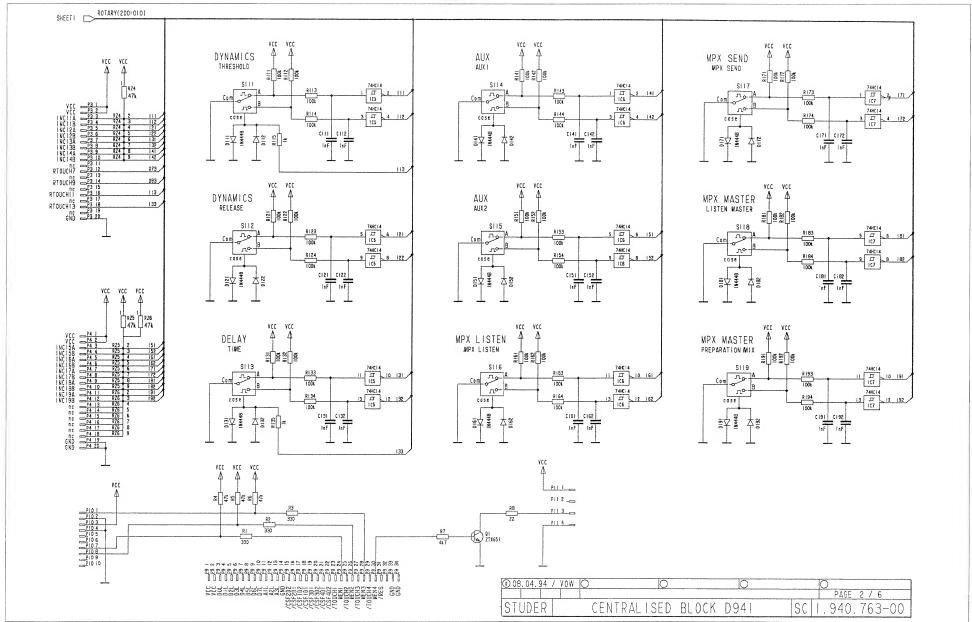
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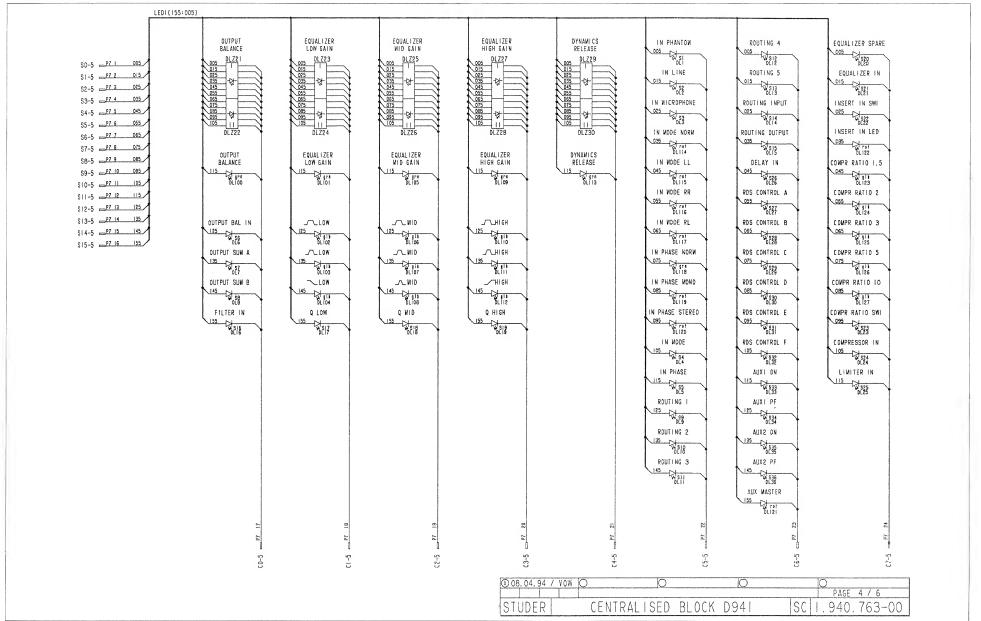
Centralized Front Board 1.940.763.00



Centralized Front Board 1.940.763.00 ROUTING ROUTING ROUTING DLZI DLZ2 DLZ3 DLZ4 DLZ5 DLZ6 DLG1414 DLG1414 DLG1414 DLG1414 DLG1414 DLG1414 VCC VCC VCC $|\underline{\nabla}|\underline{Z}|\cdot|\underline{\nabla}|\underline{Z}|\cdot|\underline{\nabla}|\underline{Z}|\cdot|\underline{\nabla}|\underline{Z}|$ 1717 1717 1717 17171 1717 1717 1717 1717 1717 1717 1717 17171 VCC Δ CI C2 C3 00± F ROUTING DLZIO DLG1414 DLZ7 DLZ8 DL Z9 DLG1414 DLG1414 DLG1414 VCC 17171 17171 17171 17171 4 D0 D2 D5 D6 D6 VCC VCC C4 C5 IOOnF vcc A VCC 4 | \(\bar{\text{L}} \ DLZ12 PD2437 | \(\bar{\chi} \bar{\ VCC λCC ΛCC VCC 07 | 100nF | C6 CB 100nF Δ C9 ICOnF CIO IOOnF EQUALIZER LOW FREQUENCE 5 웊 82822828448 FILTER FREQUENCE 1 VCC = PS 1. PS 2. D0 D1 D2 D2 D6 D7 D7 D7 D7 D7 FILTER FREQUENCE vcc ∆ vcc A νcc Δ vсс Д vcc A |\frac{1}{2} | \frac{1}{2} | \ JQ. VCC ΛCC C 14 C15 C16 IOOnF C13 C17 THRESHOLD THRESH 000 003 003 007 007 007 009 DEL AY TIME ¥ ~ 0 00 00 00 00 00 00 00 00 **1** 08.04.94 / YOW ○ PAGE 3 / 6 STUDER CENTRALISED BLOCK D941 SC .940.763-00

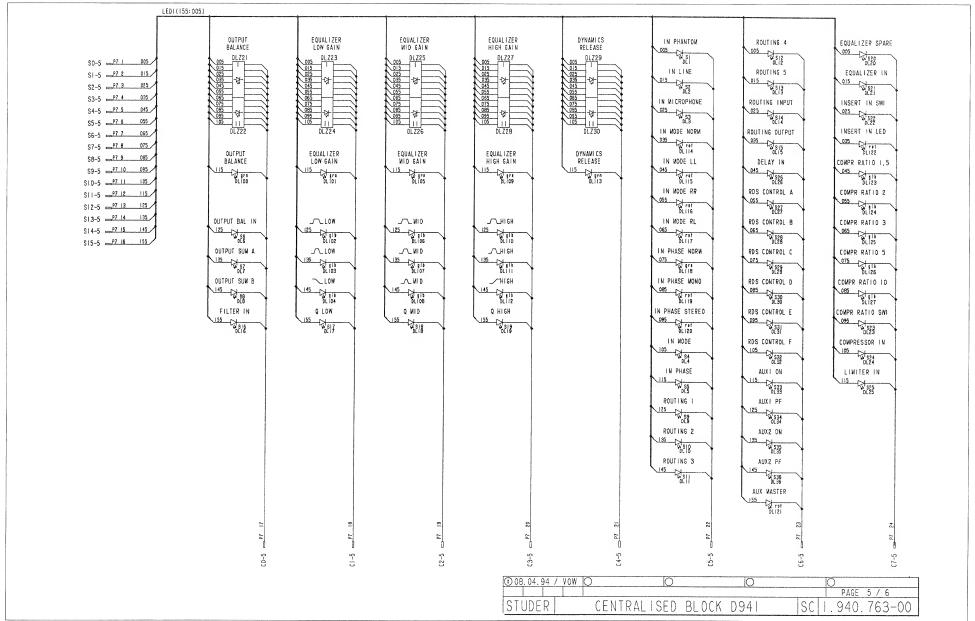


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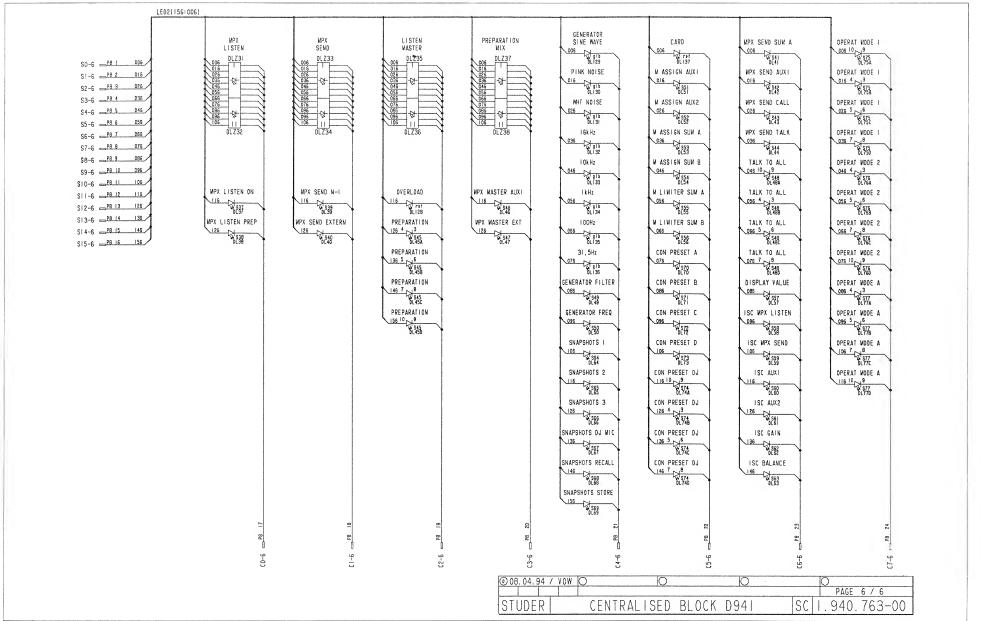


Centralized Front Board 1.940.763.00

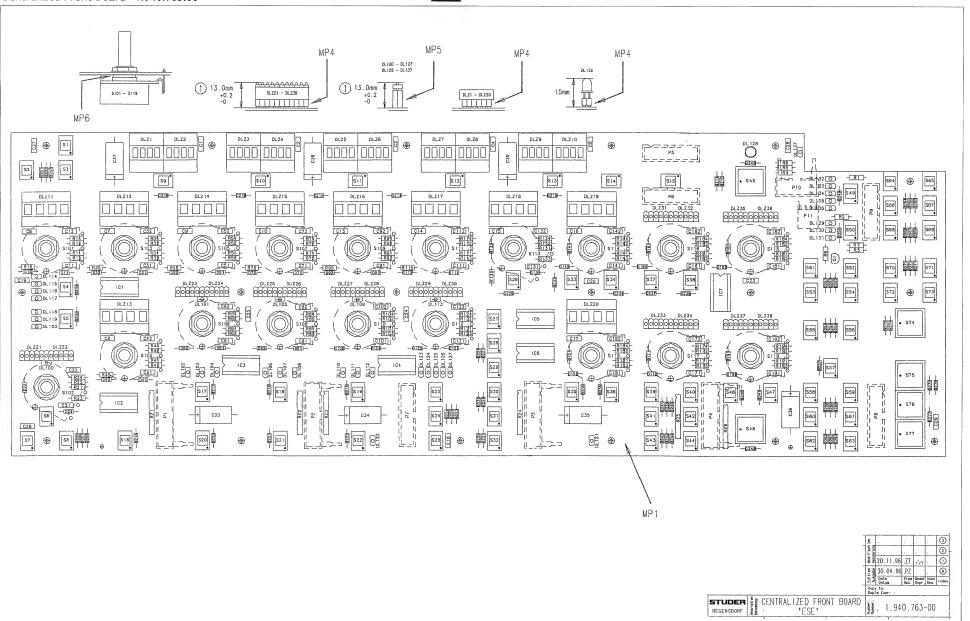














x. Pos.	Part No. Qty. Type		Description	ldx. Pos.		Type/Val.	Description	ıdx. Pos.		. Type/Val.	Description	ldx. Pos.		Type/Val.	Description
C 1	59.06.0104 100n		PETP, 63V, 10%, RM5	0 D91	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 D 266	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 37	50,04.2812		DLZ 11*D GB
C 2	59,06,0104 100n 59,06,0104 100n		PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 D 92	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 D 267	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 38	not used	not used	not used
C 4	59.06.0104 100n		PETP, 63V, 10%, RM5	0 D 101 0 D 102	50.04.0125 50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 D 268 0 D 269	50.04.0125 50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 IC1	50.17.1014	74HC14	IC 74 HC 14A
C 5	59.06.0104 100n		PETP, 63V, 10%, RM5	0 D102	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 D 269	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 10 1		74HC14 74HC14	IC 74 HC 14 , A IC 74 HC 14 , A
C 6	59.06.0104 100n		PETP 63V 10% RM5	0 D111	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 D271	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 IC3		74HC14	IC 74 HC 14 ., ,A
C 7	59.06.0104 100n		PETP, 63V, 10%, RM5	0 D 121	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 D 272	50.04.0125	1N4448	75V. 150mA. 4ns. DO-35	0 IC4		74HC14	IC 74 HC 14A
C 8	59.06,0104 100n	1	PETP, 63V, 10%, RM5	0 D 122	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 D 273	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 IC 5		74HC14	IC 74 HC 14 A
C 9	59.06.0104 100n		PETP, 63V, 10%, RM5	0 D 131	50,04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 D 274	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 IC 6	50.17.1014	74HC14	IC 74 HC 14., ,A
C 10	59.06.0104 100n		PETP, 63V, 10%, RM5	0 D 132	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 D 275	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 IC 7	50.17.1014	74HC14	IC 74 HC 14 ., ,A
C 11	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 141	50,04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 D 276	50,04.0125	1N4448	75V, 150mA, 4ns, DO-35				
C 12	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 142	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 D 277	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 MP 1	1.940.761.11 1 pce		CENTRALIZED FRONT PCB
C 13	59.06.0104 100r 59.06.0104 100r		PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 D 151 0 D 152	50,04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35					3 MP 2	43.01.0108 1 pce	Label	ESE-WARNSCHILD
C 14 C 15	59.06.0104 100r 59.06.0104 100r		PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 D152	50.04.0125 50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 DL 100	50.04.2132 50.04.2132	TLUG 2401 TLUG 2401	DL TLUG 2401 GN MATT DL TLUG 2401 GN MATT	0 MP3 0 MP4	1.940.763.04 1 pce		NRETIKETTE 5 * 20
C 16	59.06.0104 100r		PETP, 63V, 10%, RM5	0 D 162	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 DL 101 0 DL 102	50.04.2132 50.04.2133	TLUG 2401 TLUY 2401	DL TLUG 2401 GN MATT	0 MP4 1 MP5	53.03.0218 518 pc 53.03.0240 36 pcs	1p	XIC SINGLE, IN-LINE 1PIN=15 XI ED SINGLE LINE 2 POL. PE
C 17	59.C6.0104 100r		PETP. 63V. 10%, RM5	0 D 171	50.04.0125	1N4448	75V, 150mA, 4ns. DO-35	0 DL 102	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 MP6	1.010.091.23 19 pcs		DISTANZSCHEIBE D 9,0/12* 1
C 18	59.06.0104 100r		PETP. 63V. 10%, RM5	0 D 172	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 104	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	o mr o	1.010.081.23 18 pcs		DIGTANZGCHEIBE D 8.0/12 1
C 19	59.06.0104 100r	1	PETP, 63V, 10%, RM5	0 D 181	50.04.0125	1N4448	75V. 160mA, 4ns. DO-35	0 DL 105	50.04.2132	TLUG 2401	DL TLUG 2401 GN MATT	0 P1	54.14.2103	20p	P STECKER 20 P,AU,VR,GE
C 20	59.06.0104 100r		PETP, 63V, 10%, RM5	0 D 182	50,04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 106	50.04,2133	TLUY 2401	DL TLUY 2401 GB MATT	0 P2	54.14.2103	20p	P STECKER 20 P.AU, VR, GEI
C 21	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 191	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 107	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 P3	54.14.2103	20p	P STECKER 20 P,AU,VR,GE
C 22	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 192	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 108	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 P4		20p	P STECKER 20 P,AU,VR,GE
C 23	59.06.0104 100r		PETP, 63V, 10%, RM5	0 D 201	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 109	50.04.2132	TLUG 2401	DL TLUG 2401 GN MATT	0 P5		34p	P 1/40", 34 P, AU, PRINT
C 24	59 06.0104 100r		PETP, 63V, 10%, RM5	0 D 202	50.04 0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 110	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 P6		34p	P 1/40", 34 P, AU, PRINT
C 25 C 26	59.06.0104 100r		PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 D 203 0 D 204	50.04.0125 50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35	0 DL 111	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 P7 0 P8		40p	P 1/40", 40 P, AU, PRINT
C 26 C 27	59,06,0104 100r 59,06,0104 100r		PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 D 204 0 D 205	50.04.0125 50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 DL 112	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT DL TLUG 2401 GN MATT	0 P8 0 P9		40p 34p	P 1/40", 40 P, AU, PRINT P 1/40", 34 P, AU, PRINT
C 28	59.06.0104 100r		PETP, 63V, 10%, RM5	0 D 206	50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 DL 113 0 DL 114	50.04.2132 50.04.2121	TLUG 2401 TLUR 2401	DL TLUG 2401 GN MATT DL TLUR 2401 RT MATT	0 P10		34p 10p	P 1/40", 34 P, AU, PRINT P STECKER 10 P,AU,VR,GE
C 28	59,06,0104 100r		PETP, 63V, 10%, RM5	0 D 207	50.04.0125	1N4446 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 DL 114 0 DL 115	50.04.2121 50.04.2121	TLUR 2401	DL TLUR 2401 RT MATT	2 P10		10p 4p	Stecker winker PCB
C 31	59.06.0102 1n0		PETP. 63V. 10%, RM5	0 D 208	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 115	50.04.2121	TLUR 2401	DL TLUR 2401 RT MATT	2 ' ' ' '	34.12.0724	тр	Gleicker William F CD
C 32	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 209	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 117	50.04.2121	TLUR 2401	DL TLUR 2401 RT MATT	0 Q1	50.03.0523	ZTX651	ZTX 651
C 33	59.25.2221 220		C-EL, 20%, 10V	0 D 210	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 118	50.04.2132	TLUG 2401	DL TLUG 2401 GN MATT				
C 34	59.25.2221 220		C-EL, 20%, 10V	0 D 211	50 04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 119	50.04.2121	TLUR 2401	DL TLUR 2401 RT MATT	0 R1	57.11.3331	330R	MF', 1%, 0207
C 35	59.25.2221 220		C-EL, 20%, 10V	0 D 212	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 120	50.04.2121	TLUR 2401	DL TLUR 2401 RT MATT	0 R 2		330R	MF, 1%, 0207
C 36	59 25.2221 220		C-EL, 20%, 10V	0 D 213	50 04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 121	50.04.2121	TLUR 2401	DL TLUR 2401 RT MATT	0 R3		330R	MF, 1%, 0207
C 37	59.25.2221 220		C-EL, 20%, 10V	0 D 214	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	1 DL 122	not used	TLUR 2401	DL TLUR 2401 RT MATT	0 R4		47k	MF, 1%, 0207
C 38	59.25.2221 220 59.25.2221 220		C-EL, 20%, 10V C-EL 20%, 10V	0 D 215 0 D 216	50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35	0 DL 123	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 R5		47k	MF', 1%, 0207
C 39 C 41	59.25.2221 220 59.06.0102 1n0		PETP. 63V. 10%. RM5	0 D216	50.04.0125 50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 DL 124	50.04.2133	TI.UY 2401	DL TLUY 2401 GB MATT DL TLUY 2401 GB MATT	0 R6 0 R7		47k 4k7	MF, 1%, 0207 MF, 1% 0207
C 42	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D218	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 DL 125 0 DL 126	50.04.2133 50.04.2133	TLUY 2401 TLUY 2401	DL TLUY 2401 GB MATT DL TLUY 2401 GB MATT	0 R8		4K7 22R	MF, 1%, 0207 MF, 1%, 0207
C 51	59.06.0102 1n0		PETP. 63V. 10%, RM5	0 D 219	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 127	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 R 11		100k	MF 1% 0207
C 52	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 220	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 128	50.04.2502	HLMP4700	DL HLMP - 4700 RT	0 R 12		100k	MF, 1%, 0207
C 52 C 61	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 221	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 129	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 R 13	57.11.3104	100k	MF, 1%, 0207
C 62	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 222	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 130	50,04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 R 14	57,11.3104	100k	MF, 1%, 0207
C 71	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 223	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 131	50,04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 R 15	57.11.3102	1k0	MF, 1%, 0207
C 72	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 224	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 132	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 R 21		100k	MF, 1%, 0207
C 81	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 225	50,04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 133	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 R 22	57.11.3104	100k	MF, 1%, 0207
C 82 C 91	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 226	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 134	50.04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 R 23	57.11.3104	100k	MF, 1%, 0207
C 92	59.06.0102 1n0 59.06.0102 1n0		PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 D 227 0 D 228	50.04.0125 50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35	0 DL 135	50,04.2133	TLUY 2401	DL TLUY 2401 GB MATT	0 R 24 0 R 31		100k 100k	MF, 1%, 0207 MF, 1%, 0207
C 101	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 228	50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 DL 136 0 DL 137	50.04.2133 50.04.2132	TLUY 2401 TLUG 2401	DL TLUY 2401 GB MATT DL TLUG 2401 GN MATT	0 R31	57.11.3104 57.11.3104	100k	MF, 1%, 0207 MF, 1%, 0207
C 102	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 230	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DL 137 0 DLZ 1	73.01.0406	TLUG 2401	LED DOT MATR-DISP 4 DIG 5X7	0 R32	57.11.3104	100k	MF, 1%, 0207
C 111	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 231	50.04.0125	1N4448	75V 150mA 4ns DO-35	0 DLZ 2	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 R 34	57.11.3104	100k	MF 1% 0207
C 112	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 232	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 3	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 R 35	57.11.3102	1k0	MF, 1%, 0207
C 121	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 233	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 4	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 R 41	57.11.3104	100k	MF, 1%, 0207
C 122	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 234	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 5	73,01,0406		LED DOT MATR-DISP 4 DIG 5X7	0 R 42	57.11.3104	100k	MF, 1%, 0207
C 131	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 235	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 6	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 R 43	57.11.3104	100k	MF, 1%, 0207
C 132	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 236	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 7	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 R 44	57.11.3104	100k	MF, 1%, 0207
C 141	59.06.0102 1n0		PETP, 63V, 10%. RM5	0 D 237	60.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 8	73,01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 R 45	57.11.3102	1k0	MF, 1%, 0207
C 142 C 151	59.06.0102 1n0 59.08.0102 1n0		PETP, 63V, 10%, RM5 PETP, 63V, 10%, RM5	0 D 238 0 D 239	50.04.0125 50.04.0125	1N4448 1N4448	75V, 150mA, 4ns. DO-35 75V, 150mA, 4ns. DO-35	0 DLZ 9	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7	0 R 51 0 R 52	57.11.3104	100k 100k	MF, 1%, 0207
C 152	59.06.0102 In0		PETP, 63V, 10%, RM5	0 D 239	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 10	73.01.0406		LED DOT MATR-DISP 4 DIG 5X7 LED DOT MATR-DISP 4 DIG 5X7	0 R52	57.11.3104 57.11.3104	100k	MF, 1%, 0207 MF, 1%, 0207
C 161	59.06.0102 Inc		PETP, 63V, 10%, RM5	0 D 241	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 11	73.01.0405 73.01.0405		LED DOT MATR-DISP 4 DIG 5X7 LED DOT MATR-DISP 4 DIG 5X7	0 R53	57.11.3104	100k	MF, 1%, 0207
C 162	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 242	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 12 0 DLZ 13	73.01.0405		LED DOT MATR-DISP 4 DIG 5X7	0 R 55	57.11.3104	1k0	MF. 1%, 0207
C 171	59.06 0102 1n0		PETP, 63V, 10%, RM5	0 D 243	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 14	73.01.0405		LED DOT MATR-DISP 4 DIG 5X7	0 R 61	57.11.3104	100k	MF, 1%, 0207
C 172	59.06.0102 1n9		PETP, 63V, 10%, RM5	0 D 244	50.04.0125	1N4448	75V, 150mA, 4ns. DO-35	0 DLZ 15	73.01.0405		LED DOT MATR-DISP 4 DIG 5X7	0 R 62	57.11.3104	100k	MF, 1%, 0207
C 181	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 245	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 16	73.01.0405		LED DOT MATR-DISP 4 DIG 5X7	0 R 63	57,11,3104	100k	MF, 1%, 0207
C 182	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 246	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 17	73.01,0405		LED DOT MATR-DISP 4 DIG 5X7	0 R 64	57.11.3104	100k	MF. 1%, 0207
C 191	59.06.0102 1n0		PETP, 63V, 10%, RM5	0 D 247	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 18	73.01.0405		LED DOT MATR-DISP 4 DIG 5X7	0 R 71	57.11.3104	100k	MF, 1%, 0207
C 192	59.06,0102 1n0		PETP, 63V, 10%, RM5	0 D 248	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 19	73.01.0405		LED DOT MATR-DISP 4 DIG 5X7	0 R 72	57.11.3104	100k	MF, 1%, 0207
				0 D 249	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 20	73.01.0405		LED DOT MATR-DISP 4 DIG 5X7	0 R 73	57 11.3104	100k	MF, 1%, 0207
D 11	50.04.0125 1N4	1448 1448	75V, 150mA, 4ns, DO-35	0 D 250	50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 21	50.04.2812		DLZ 11*D GB	0 R74 0 R75	57.11.3104	100k	MF, 1%, 0207
D 12 D 21		1448 1448	75V 150mA, 4ns, DO-35 75V 150mA, 4ns, DO-35	0 D 251 0 D 252	50.04.0125 50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 DLZ 22	not used	not used	not used	0 R75 0 R81	57.11.3102 57.11.3104	1k0 100k	MF, 1%, 0207
D 21 D 22		1448 1448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 D 252 0 D 253	50.04.0125 50.04.0125	1N4448	75V, 150mA, 4ns, DC-35 75V, 150mA, 4ns, DC-35	0 DLZ 23	50.04.2812		DLZ 11*D GB	0 R81	57.11.3104 57.11.3104	100k 100k	MF, 1%, 0207 MF, 1%, 0207
D 22 D 31	50.04.0125 1N4 50.04.0125 1N4	1.70	75V, 150mA, 4ns, DCI-35 75V, 150mA, 4ns, DCI-35	0 D 253	50.04.0125	1N4448 1N4448	75V, 150mA, 4ns, DC-35 75V, 150mA, 4ns, DO-35	0 DLZ 24	not used	not used	not used	0 R 82	57.11.3104 57.11.3104	100k 100k	MF, 1%, 0207 MF, 1%, 0207
D 32	50.04.0125 1N4		75V, 150mA, 4ns, DO-35	0 D 254	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 25	50.04.2812		DLZ 11*D GB	0 R 84	57.11.3104 57.11.3104	100k 100k	MF, 1%, 0207 MF, 1%, 0207
D 32		1448	75V 150mA 4ns DO-35	0 D 256	50,04,0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 26 0 DLZ 27	not used 50.04.2812	not used	not used DLZ 11*D GB	0 R91	57.11.3104 57.11.3104	100k	MF, 1%, 0207 MF, 1%, 0207
D 42		1448	75V, 150mA, 4ns, DO-35	0 D 257	50.04.0125	1N4448	75V, 150mA, 4ns. DO-35	0 DLZ 27 0 DLZ 28	50.04.2812 not used	not used	not used	0 R 92	57.11.3104	100k	MF, 1%, 0207
D 51	50.04.0125 1N4	1448	75V, 150mA, 4ns, DO-35	0 D 258	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 28	50.04.2812	not need	DLZ 11*D GB	0 R 93	57.11.3104	100k	MF, 1%, 0207
D 52	50.04.0125 1N4	1448	75V, 150mA, 4ns, DO-35	0 D 259	50.04,0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 29	not used	not used	not used	0 R 94	57.11.3104	100k	MF, 1%, 0207
D 61	50.04 0125 1N4		76V, 150mA, 4ns, DO-35	0 D 260	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 31	50.04.2812		DLZ 11*D GB	0 R 95	57.11.3102	1k0	MF, 1%, 0207
	50.04.0125 1N4		75V, 150mA, 4ns, DO-35	0 D 261	50.04,0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 32	not used	not used	not used	0 R 101	57.11.3104	100k	MF, 1%, 0207
D 62-		1448	75V, 150mA, 4ns, DO-35	0 D 262	50.04.0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 33	50.04.2812		DLZ 11*D GB	0 R 102	57.11.3104	100k	MF, 1%, 0207
D 71					50.04.0125	1N4448	75V, 150mA, 4ns, DO-35		not used	not used		0 R 103	57.11.3104	100k	
D 71 D 72	50.04 0125 1N4		75V, 150mA, 4ns, DO-35	0 D 263				0 DLZ 34			notused				MF, 1%, 0207
0 D 62- 0 D 71 0 D 72 0 D 81	50.04 0125 1N4	1448 1448	75V, 150mA, 4ns, DO-35 75V, 150mA, 4ns, DO-35	0 D 263 0 D 264	50,04,0125	1N4448	75V, 150mA, 4ns, DO-35	0 DLZ 34 0 DLZ 35	50,04,2812	not dated	DLZ 11*D GB	0 R 104	57.11.3104	100k	MF, 1%, 02 MF, 1%, 02





c. Pos.	Part No. Qty.	Type/Val.	Description	ldx.	Pos.	Part No. Qty.	Type/Val.	Description
R 112	57.11.3104	100k	MF, 1%, 0207	. 0	S 43	55.15.0622	1*a	S TASTE 1*A, 5MM, RT/RT
R 113	57.11.3104	100k	MF, 1%, 0207	0	S 44	55.15.0655	1*a	S TASTE 1*A, 5MM, GN/GN
R 114 R 115	57.11.3104	100k	MF, 1%, 0207	0	S 45	55.15.0744	1*a	S TASTE 1*A, 12MM, GB/GB
R 115	57.11.3102	1k0	MF, 1%, 0207	0	S 46	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 121	57.11.3104	100k	MF, 1%, 0207	0	S 47	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 122	57.11.3104	100k	MF, 1%, U2U/	Ü	S 48	55.75.0755	1*a	S TASTE 1"A, 12MM, GN/GN
R 123	57.11.3104	100k	MF, 1%, 0207	0	S 49	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 124	57.11.3104	100k	MF, 1%, 0207	0	S 50	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 131	57.11.3104	100k	MF, 1%, 0207	0	S 51	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 132	57.11.3104	100k	MF, 1%, 0207	0	S 52	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 133	57.11.3104	100k	MF, 1%, 0207	0	S 53	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 134	57.11.3104	100k	MF, 1%, 0207	0	S 54	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 135	57.11.3102	1k0	MF, 1%, 0207	0	S 55	55.15.0622	1*a	S TASTE 1*A, 5MM, RT/RT
R 141	57.11.3104	100k	MF, 1%, 0207	0	S 56	55.15.0622	1*a	S TASTE 1*A, 5MM, RT/RT
R 142	57.11.3104	100k	MF, 1%, 0207	0	S 57	55.15.0622	1*a	S TASTE 1*A, 5MM, RT/RT
R 143	57.11.3104	100k	MF, 1%, 0207	0	S 58	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 144	57.11.3104	100k	MF, 1%, 0207	0	S 59	55.15.0644	1*a	S TASTE 1"A, 5MM, GB/GB
R 151	57.11.3104	100k	MF, 1%, 0207	0	S 60	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 152	57.11.3104	100k	MF, 1%, 0207	0	S 61	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 153	57.11.3104	100k	MF, 1%, 0207	0	S 62			
R 154		100k				55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
	57.11.3104		MF, 1%, 0207	0	S 63	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 161	57.11.3104	100k	MF, 1%, 0207	0	S 64	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 162	57.11.3104	100k	MF, 1%, 0207	0	S 65	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 163	57.11.3104	100k	MF, 1%, 0207	0	S 66	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 164	57.11.3104	100k	MF, 1%, 0207	0	S 67	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 171	57.11.3104	100k	MF, 1%, 0207	0	S 68	55.15.0655	1*a	S TASTE 1*A, 5MM, GN/GN
R 172	57.11.3104	100k	MF, 1%, 0207	0	S 69	55.15.0622	1*a	S TASTE 1*A, 5MM, RT/RT
R 173	57.11.3104	100k	MF, 1%, 0207	0	S 70	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 174	57.11.3104	100k	MF, 1%, 0207	ō	S 71	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 181	57.11.3104	100k	MF, 1%, 0207	0	S 72	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 182	57.11.3104	100k	MF, 1%, 0207	0	S 73	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB
R 183	57.11.3104	100k	MF, 1%, 0207	0	S 74			
R 184	57.11.3104	100k				55.15.0744	1*a	S TASTE 1*A, 12MM, GB/GB
			MF, 1%, 0207	1	S 75	55.15.0722	1*a	S TASTE 1*A, 12MM, RT/RT
R 191	57.11.3104	100k	MF, 1%, 0207	1	S 76	55.15.0722	1*a	S TASTE 1*A, 12MM, RT/RT
R 192	57.11.3104	100k	MF, 1%, 0207	0	S 77	55.15.0722	1*a	S TASTE 1*A, 12MM, RT/RT
R 193	57.11.3104	100k	MF, 1%, 0207	0	S 101	1.940.751.02		ROTARY ENCODER
R 194	57.11.3104	100k	MF, 1%, 0207	0	S 102	1.940.751.02		ROTARY ENCODER
				0	S 103	1.940.751.02		ROTARY ENCODER
RZ 1	57.88.4473	8*47k	2%, SIP 9	0	S 104	1.940.751.02		ROTARY ENCODER
RZ 2	57.88.4473	8*47k	2%, SIP 9	0	S 105	1.940.751.02		ROTARY ENCODER
RZ 3	57.88.4473	8*47k	2%, SIP 9	0	S 106	1.940.751.02		ROTARY ENCODER
RZ 4	57.88.4473	8*47k	2%, SIP 9	0	S 107	1.940.751.02		ROTARY ENCODER
RZ 5	57.88.4473	8*47k	2%, SIP 9	0	S 108	1.940.751.02		ROTARY ENCODER
RZ 6	57.88.4473	8*47k	2%, SIP 9	0	S 109	1.940.751.02		ROTARY ENCODER
				0	S 110	1.940.751.02		ROTARY ENCODER
S 1	55.15.0655	1*a	S TASTE 1*A, 5MM, GN/GN	0	S 111	1.940.751.02		ROTARY ENCODER
S 2	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB	0	S 112	1.940.751.02		ROTARY ENCODER
83	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB	0	S 112	1.940.751.02		ROTARY ENCODER
S 4	55.15.0622	1*a	S TASTE 1*A, 5MM, RT/RT	0	S 114			
S 5	55,15,0622	1*a	S TASTE 1*A, 5MM, RT/RT	0		1.940.751.02		ROTARY ENCODER
S 6	55.15.0622	1 a 1*a	S TASTE 1A, SWIM, RT/RT		S 115	1.940.751.02		ROTARY ENCODER
				0	S 116	1.940.751.02		ROTARY ENCODER
S7	55.15.0655	1*a	S TASTE 1*A, 5MM, GN/GN	0	S 117	1.940.751.02		ROTARY ENCODER
S 8	55.15.0655	1*a	S TASTE 1*A, 5MM, GN/GN	0	S 118	1.940.751.02		ROTARY ENCODER
S 9	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB	0	S 119	1,940.751.02		ROTARY ENCODER
S 10	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 11	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB				End of List -	
S 12	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB	Com	nmanter			
S 13	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB		nments:	additional langue - 4		
S 14	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB			additional inserted		
S 15	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB	(02) 1	11,04,33,010	o onangeu to 04, 12.0724		
S 16	55.15.0622	1*a	S TASTE 1*A, 5MM, RT/RT					
S 17	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 18	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 19	55,15,0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 20	55.15.0622	1*a	S TASTE 1*A, 5MM, RT/RT					
S 21	55.15.0622	1 a 1*a	S TASTE 1'A, 5MM, RT/RT					
S 22	not used	not used	not used					
S 23		1*a	S TASTE 1*A, 5MM, GB/GB					
S 23 S 24	55.15.0644	1*a 1*a	S TASTE 1"A, 5MM, GB/GB S TASTE 1"A, 5MM, RT/RT					
	55.15.0622 55.15.0622							
S 25	55.15.0622	1*a	The state of the s					
S 26	55.15.0622	1*a	S TASTE 1*A, 5MM, RT/RT					
S 27	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 28	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 29	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 30	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 31	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 32	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 33	55.15.0655	1*a	S TASTE 1*A, 5MM, GN/GN					
S 34	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 35	55.15.0655	1*a	S TASTE 1*A, 5MM, GN/GN					
	55.15.0644	1*a	S TASTE 1'A, 5MM, GB/GB					
S 36		1*a 1*a						
S 36 S 37								
S 37	55.15.0655		S TASTE 1*A, 5MM, GN/GN					
S 37 S 38	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					
S 37 S 38 S 39	55.15.0644 55.15.0644	1*a 1*a	S TASTE 1*A, 5MM, GB/GB S TASTE 1*A, 5MM, GB/GB					
S 37 S 38	55.15.0644	1*a	S TASTE 1*A, 5MM, GB/GB					

CIRCUIT DIAGRAMS SECTION 5

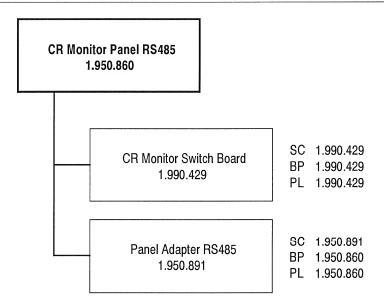
Monitor Units

CR Monitor Panel RS485	
– CR Monitor Switch Board– Panel Adapter RS485	
Studio Monitor Panel RS485	. 1.950.870
- Studio Monitor Switch Board	. 1.990.439
– Panel Adapter RS485 (see 1.950.860)	
PFL/TB/HP Panel RS485consisting of:	
– PFL/TB/HP Switch Board	. 1.990.449
– Panel Adapter RS485 (see 1.950.860)	. 1.950.891
Source Selector Panel RS485	
- Source Selector Switch Board	. 1.990.499
– Panel Adapter RS485 (see 1.950.860)	. 1.950.891
HDLC Bus Board 12A	. 1.992.170
HDLC Bus Board 4A	. 1.992.171

Date printed: 20.02.02 Section 5

CR Monitor Panel RS485, Components

1.950.860

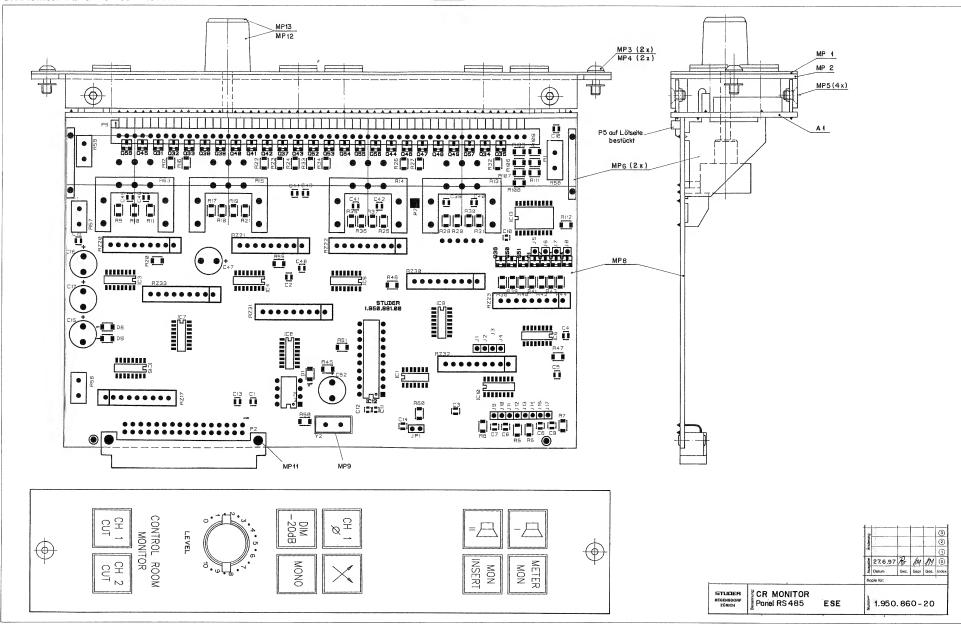


SC: Circuit Diagram
BP: Component Placement Diagram

PL: Parts List

CR Monitor Panel RS 485 1.950.860.20







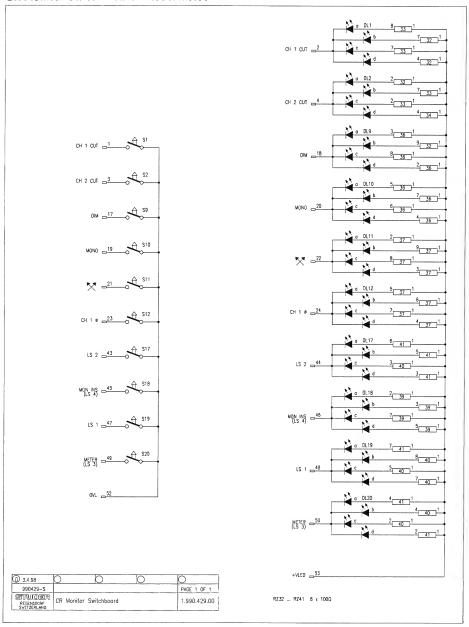
CR Monitor Panel RS 485 1.950.860.22

CK Monit	or Panei KS 405	1.750.860.22			
ldx. Pos.	Part No. Qty. Type/Val.	Description	ldx. Pos.	Part No. Qty. Typ	e/Val. Description
0 A1	1.990.429.00 1 pce	CR MONITOR SWITCH BOARD	0 Q 47		947B Q BC 847 B, SOT 23
	59.60.3337 100n	OFD 501/ 101/ VZD 0005	0 Q 48		347B Q BC 847 B, SOT 23
0 C1 0 C2	59.80.3337 100n 59.80.3337 100n	CER 50V, 10%, X7R, 0805 CER 50V, 10%, X7R, 0805	0 Q 49 0 Q 50		347B Q BC 847 B, SOT 23 347B Q BC 847 B, SOT 23
0 03	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q 51		347B Q BC 847 B. SOT 23
0 G4	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q 52		847B Q BC 847 B, SOT 23
0 C5	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q 53		847B Q BC 847 B, SOT 23
0 C6	59.60.3317 2n2	CER 50V, 10%, X7R, 0805	0 Q 54		847B Q BC 847 B, SOT 23
0 C7	59.60.3317 2n2	CER 50V, 10%, X7R, 0805	0 Q 55		847B Q BC 847 B, SOT 23
0 C8	59.60.3317 2n2	CER 50V, 10%, X7R, 0805	0 Q.56		847B Q BC 847 B, SOT 23
0 C9	59.60.3317 2n2	CER 50V, 10%, X7R, 0805	0 Q 57		847B Q BC 847 B, SOT 23
0 C 10 0 C 11	59.60.2231 18p 59.60.2237 33p	CER 50V, 5%, C0G, 0603 CER 50V, 5%, C0G, 0803	0 Q 58	50.60.0001 BC	847B Q BC 847 B, SOT 23
0 C11	59.60.2237 33p 59.60.2237 33p	CER 50V, 5%, C0G, 0603	0 R1	not used OR	0 MF. 0204
0 C 13	59.60.2237 33p 59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 R5	57.60.1101 100	
0 C 14	59,60,3337 100ni	CER 50V, 10%, X7R, 0805	0 R6	57.60.1101 100	
0 C 15	59.22.4002 100uF	EL 16V, 20%, RM5	0 R7	57.60.1101 100	
0 C 16	59.22.4002 100uF	EL 16V, 20%, RM5	0 R8	57.60.1101 100	
0 C 17	59.22.4002 100uF	EL 16V, 20%, RM5	0 R9	57.60.1682 6K	
0 C18	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 R 10	57.60,1682 6K	
0 C 19	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 R 11	57.60.1682 6K	
0 C 39 0 C 40	59.60.3325 10n 59.60.3325 10n	CER 50V, 10%, X7R, 0805 CER 50V, 10%, X7R, 0805	0 R 12 0 R 13	57.60.1682 6K not used 10	
0 C 40 0 C 41	59.60.3325 10n	CER 50V, 10%, X7R, 0805	0 R 14	not used 100	
0 C42	59.60.3325 10n	CER 50V, 10%, X7R, 0805	0 R 15	1.010.039.58	POT 100K LIN 21 RASTSTELLUNGEN
0 C43	59.60.3325 10n	CER 50V, 10%, X7R, 0805	0 R 16	57.60.1682 6K	
0 C 44	59.60.3325 10n	CER 50V, 10%, X7R, 0805	0 R 17	57.60.1682 6K	MF, 1%, 0204, E24
0 C 45	59.60.3325 10n	CER 50V, 10%, X7R, 0805	0 R 18	57.60.1682 6K	MF, 1%, 0204, E24
0 C46	59.60.3325 10n	CER 50V, 10%, X7R, 0805	0 R 19	57.60.1682 6K	
0 C 47	59.22.6100 10u	EL 35V, 20%, RM5	0 R 20	57.60.1103 10	
0 C48	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 R 21 0 R 22	57.60.1682 6K	
0 C 52	59.22.6100 10u	EL 35V, 20%, RM5	0 R 22 0 R 23	57.60.1682 6K 57.60.1682 6K	
0 D1	50.60.8001 4448	D LL 4448 SOD 80	0 R 24	57.60.1682 BK	
0 D5	50.60.8001 4448	D LL 4448 SOD 80	0 R 25	57.60.1682 6K	
0 D6	50.60.8001 4448	D LL 4448 SOD 80	0 R 26	57.60.1682 6K	
			0 R 27	57.60.1682 6K	
0 IC 1	50.62.1004 74HC 04	74 HC 04	0 R 28	57.60.1682 6K	B MF, 1%, 0204, E24
0 IC 3	50.62.1595 74HC595	74 HC 595	0 R 29	57.60.1682 6K	
0 IC4	50.62.1595 74HC595	74 HC 595	0 R 30	57.60.1682 6K	
0 IC 5	50.62.1595 74HC595	74 HC 595	0 R 31	57.60.1682 6K	
0 IC 6 0 IC 7	50.62.1595 74HC595 50.62.1165 74HC165	74 HC 595 74 HC 165	0 R 32 0 R 33	57.60.1682 6K 57.60.1682 6K	
0 IC7	50.62.1165 74HC165 50.62.1165 74HC185	74 HC 165	0 R33	57.60,1682 6K 57.60,1682 6K	
0 10 9	50.62.1165 74HC165	74 HC 165	0 R35	57.60,1682 6K	
0 IC 10	50.62.1165 74HC165	74 HC 165	0 R 36	57.60.1682 6K	
0 IC 12	1.950.900.22	SW 860 MONITOR (50.18.0313)	0 R 37	57.60.1682 6K	
0 IC 13	50.61.8101 68HC68	A/D Converter 10bit 8Ch SO 20	0 R 38	57.60.1682 8K	B MF, 1%, 0204, E24
0 IC 14	50.15.0115 75176	IC SN 75176 BP, DS 3695 N,	0 R 39	57.60.1682 6K	
0 IC 15	50.62.1165 74HC165	74 HC 165	0 R 40	57.60.1682 6K	
			0 R 41	57.60.1682 6K	
0 MP1	1.990.420.01 1 pce	FRONTSCHILD CR MONITOR	0 R 42 0 R 43	57.60.1682 6K	
0 MP2 0 MP3	1.990.490.02 1 pce	TRAEGER SOURCE SELECTOR 20PB	0 R 43 0 R 44	57.60.1682 6K 57.60.1682 6K	
0 MP3 0 MP4	1.010.022.21 2 pcs M3*8 24.16.3023 2 pcs	L-Schraube IS sw spezial WELLENSICHERUNG 2.3	0 R44	57.60.1682 6K	
0 MP5	21.01.2352 4 pcs M3*4	S - Schraube Zn ob chr	0 R 46	57.60.1103 101	
0 MP6	1.990.100.01 2 pcs	OUERPRINTSTUFTZE	0 R 47	57.60.1103 101	
0 MP 7	1.950.860.04 1 pce	STUDER NR. ETIKETTE 10x20	0 R 50	57.60.1103 101	
0 MPB	1.950.891.11 1 pce	PANEL ADAPTER RS 485 PCB	0 R 51	57.60.1101 100	DR MF, 1%, 0204, E24
0 MP9	89.01.1499 1 poe	QUARZ - ISOLIERPLATTE	0 R 53	not used 10	
0 MP 10	43.01.0108 1 pce Label	ESE-WARNSCHILD	0 R 55	57.60.1150 151	
0 MP 11	28.99.0119 2 pcs	ROHRNIETE D 2.5*0.15* 9	0 R 56 0 R 57	57.92.1820 94	
0 MP 12	42.01.0233 1 pce	KNEBELKNOPF GR D 15/4	0 R 57 0 R 58	57.92.1820 944 57.92.7016 1.6	
0 MP 13 0 MP 14	42.01.0257 1 pce	DECKEL H'GR ZU KNOPF-D 15	0 R 59	57.92.7016 1.6 57.92.7016 1.6	
0 MP14	1.101.001.20 1 pce Label	TEXT-ETIK. 5*20 HARDWARE -20	0 R 60	57.92.7016 1.6 57.60.1103 101	
0 P2	54.11.2013 32p	EU-BK 2*16p	0 R 105	57.60.1100 OR	
0 P5	54.11.2013 32p 54.11.0125 53 pcs 1p	P STIFT.WINKEL 1 PIN=1 STK.	0 R 106	57.60.1000 OR	
		. S.A I, WHILE ITH-101K	0 R 107	57.80.1000 OR	
0 Q1	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 R 108	57.60.1000 OR	MF, 0204
0 Q2	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 R 109	57.60.1000 OR	
0 Q3	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 R 111	57.60.1000 OR	
0 Q4	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 R 112	57.60.1000 OR	0 MF, 0204
0 Q 31 0 Q 32	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 RZ 17	57.88.4104 8*1	00k 2%, SIP 9
0 Q32 0 Q33	50.60.0001 BC847B 50.80.0001 BC847B	Q BC 847 B, SOT 23 Q BC 847 B, SOT 23	0 RZ 17		00k 2%, SIP 9 00k 2%, SIP 9
0 Q33 0 Q34	50.80.0001 BC847B 50.60.0001 BC847B	Q BC 847 B, SOT 23 Q BC 847 B, SOT 23	0 RZ 21		00k 2%, SIP 9 00k 2%, SIP 9
0 Q34 0 Q35	50.60.0001 BC847B	Q BC 847 B, SOT 23 Q BC 847 B, SOT 23	0 RZ 22		00k 2%, SIP 9
0 Q36	50.60.0001 BC847B	Q BC 847 B. SOT 23	0 RZ 23	57.88.4104 8*1	
0 Q 37	50.50.0001 BC847B	Q BC 847 B, SOT 23	0 RZ 30	57.88.4104 8*1	00k 2%, SIP 9
0 Q38	50.50.0001 BC847B	Q BC 847 B, SOT 23	0 RZ 31	57.88.4104 8*1	00k 2%, SIP 9
0 Q39	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 RZ 32		00k 2%, SIP 9
0 Q 40	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 RZ 33	57.88.4104 8*1	00k 2%, SIP 9
0 Q41	50.50.0001 BC847B	Q BC 847 B, SOT 23			
0 Q 42	50.50.0001 BC847B	Q BC 847 B, SOT 23			
0 Q 43 0 Q 44	50.50.0001 BC847B 50.60.0001 BC847B	Q BC 847 B, SOT 23			
0 Q 44 0 Q 45	50.50.0001 BC847B 50.60,0001 BC847B	Q BC 847 B, SOT 23 Q BC 847 B, SOT 23			
0 Q 46	50.60.0001 BC847B	Q BC 847 B, SOT 23			
	300775				

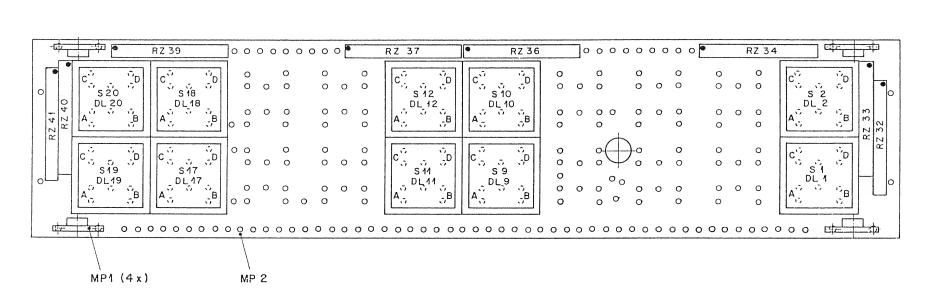
ldx.	Pos.	Part No. Qty	/. Type/Val.	Description
0	XIC 12	53.03.0165	20p	DIL 0.3", iöt, gerade
0	XIC 14	53.03.0166 pc	е 8р	DIL 0.3", lot, gerade
0	Y 2	89.01.1016	22.1184MHz	22.118 400 MHz, HC 49/U

Comments:

CR Monitor Switch Board 1.990.429.00



CR Monitor Switch Board 1.990.429.00



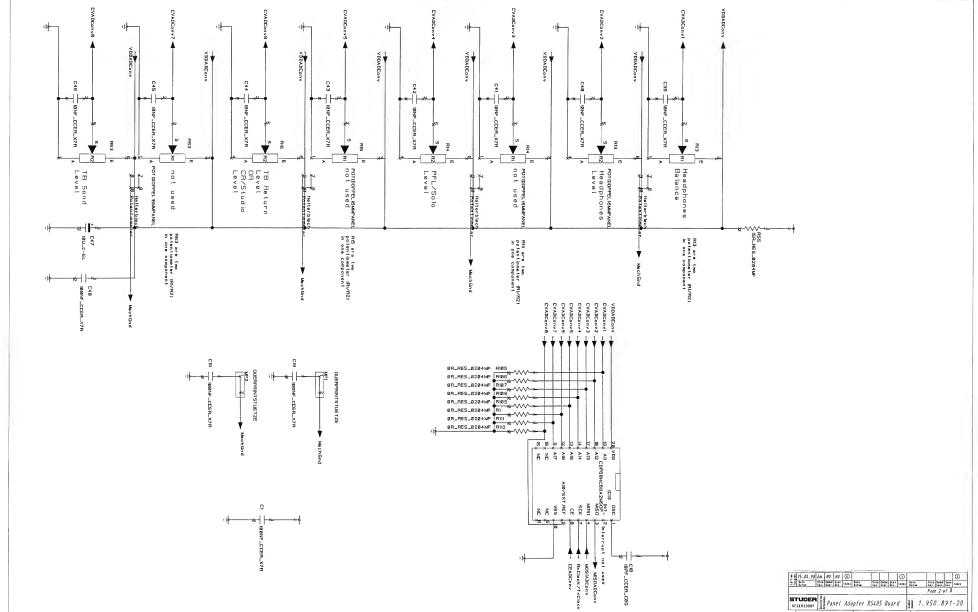
Ad	POS.,	REF.No	DESCRIP	TION	MANUFACTURE
	DL1	0	not used	see S 01	
	DL2	0	not used	see S 02	
	DL9	0	not used	see S 09	
	DL10	0	not used	see S 10	
	DL11	0	not used	see S 11	
	DL12	0	not used	see S 12	
	DL17	0	not used	see S 17	
	DL18	0	not used	see S 18	
	DL19 DL20	0	not used	see S 19	
		0	not used	see S 20	
	MP1	1.990.100.05	4 pcs	Querprinthalter	
	MP2	1.990.429.11	1 pcs	CR MONITOR SWITCH PCB	
	MP3	1.990.429.04	1 pcs	Nr-Etikette	
	s1	55.15.0702		Taste 1*A,12mm RT/Trans	CH I CUT
	\$2	55.15.0702		Taste 1*A, 12mm RT/Trans	
	S9	55.15.0722		Taste 1*A,12mm RT/RT	DIM - 20dB
	S10	55.15.0705		Taste 1*A, 12mm GN/Trans	MONO
	S11	55.15.0705		Taste 1*A.12mm GN/Trans	Kanalvert.
	\$12	55.15.0705		Taste 1*A,12mm GN/Trans	CH I Phase
	S17	55.15.0704		Taste 1*A,12mm GB/Trans	speaker ALT.
	\$18	55.15.0704		Taste 1*A,12mm GB/Trans	
	S19	55.15.0704		Taste 1"A, 12mm GB/Trans	
	\$20	55.15.0704		Taste 1*A,12mm GB/Trans	speaker II
	RZ32	57.88.4101	100 0hm	2% ,8*	
	RZ33	57.88.4101	100 Ohm	24 ,8*	
	RZ34	57.88.4101	100 0hm	24 ,8*	
	RZ36 RZ37	57.88.4101 57.88.4101	100 0hm 100 0hm	24 ,8*	
	RZ39	57.88,4101	100 Ohm	24 .8* 24 .8*	
	RZ40	57.88.4101	100 Ohm	24 .8*	
				,-	
	RZ41	57.88.4101	100 0hm	24 ,8*	
CER-	-Ceramic, fetal Fil	PE=Polyester m, PMG=Cermet			
MAN	JFACTURER	: Ex=Exar, NEC Sig=Signetic		ctric Corp., Ph=Philips, I r.	Ra=Raytheon,
		1.990.429.00	CR MONITOR	SWITCH BOARD SCA88,	12/1600

CR MONITOR SWITCH BOARD

Panel Adapter RS 485 Board 1.950.891.20		
PS STEPLED RESIDEN St. S	25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 37, 30, 39, 40, 41, 42, 43, 46, 47, 46, 49, 50, 51, 52, 53, 54, 55, 55, 55, 55, 55, 55, 55, 55, 55	10
	14 23 24 24 24 24 24 24 2	TONE-CCER.X7R TONE-CCER.X7R TONE-CCER.X7R TONE-CCER.X7R TONE-CCER.X7R
TO SECURITY OF THE PROPERTY OF	F F F F F F F F F F	C C C C C C C C C C
Inches Andrews	12	

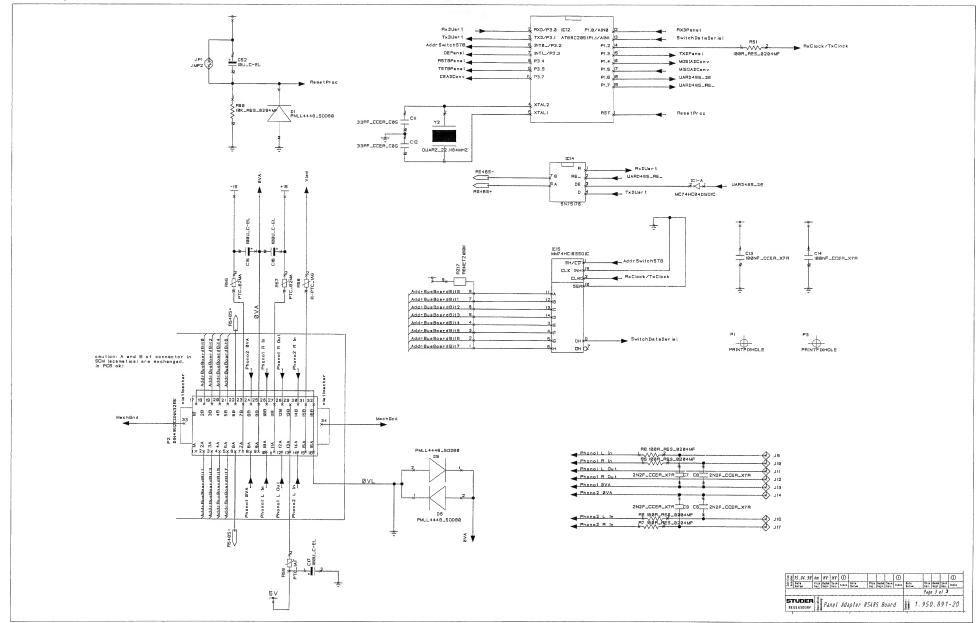
STUDER Panel Adapter RS 485 Board 1.950.891.20 TB Return Level OR CR/Studio Level TB Send





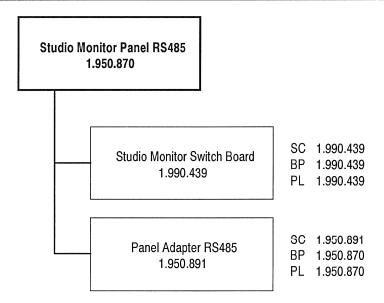
Panel Adapter RS 485 Board 1.950.891.20





Studio Monitor Panel RS485, Components

1.950.870



SC: Circuit Diagram
BP: Component Placement Diagram

PL: Parts List

Studio Monitor Panel RS 485 1.950.870.20 MP 13 MP 12 MP3 (2x) MP 1 MP 2 MP5(4x) • <u>∏</u> €18 P5 auf Lötseite bestückt A1 9 -MP6(2x) 00 HS R R R R II C41 • II C42 O^{*} 8 8 JC10 1111111111 Ū, 00000000 0000000 00000000 MP8 12 Z C48 _____<u>5</u>2 ******* H46 111111111 #38 #42 #42 #44 00000000 50 11 0000 ****** C5 THE PARTY OF . 11111111 f C13 C1 0000000 · . MP11 STUDIO STUDIO MONITOR RED L MANUAL MON. SOLO REN SIGNAL -TALKB 27.6.97 B /M /M © T/B SPKR RED 원유 $\frac{1}{2}$ Detum Goz. Gepr. Ges. In STUDER STUDIO MONITOR REGENSDORF ZÜRICH 1.950.870-20

ESE

Panel RS 485



Studio Monitor Panel RS 485 1.950.870.22

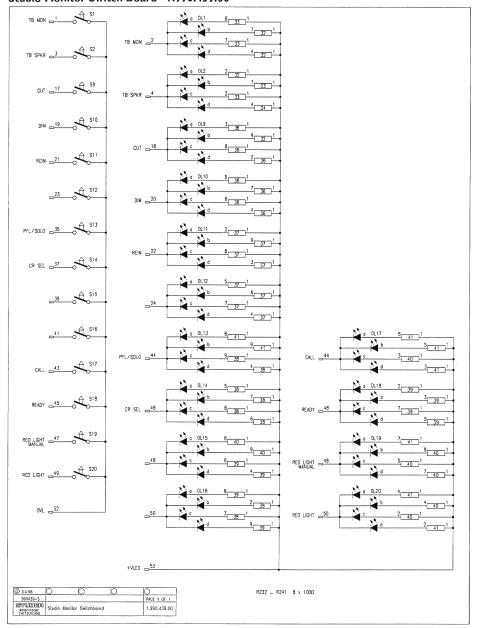
. Pos.	Part No. Qty.	Type/Val.	Description	ldx.	Pos.	Part No. Qty.	Type/Val.	Description
A 1	1.990,439.00 1 pce		STUDIO MONITOR SWITCH BOARD	0	Q 46	50.60.0001	BC847B	Q BC 847 B. SOT 23
A.	1.880.938.00 1 pos		STODIO MONTON SWITCH BOAND	0	Q 47	50.60.0001	BC847B	Q BC 847 B. SOT 23
C 1	59.60.3337	100n	CER 50V, 10%, X7R, 0806	ō	Q 48	50.60.0001	BC847B	Q BC 847 B SOT 23
C2		100n	CER 50V, 10%, X7R, 0805	0	Q 49	50.60.0001	BC847B	Q BC 847 B, SOT 23
		100n		0	0.50			
C 3			CER 50V, 10%, X7R, 0805	0		50.60.0001	BC847B	Q BC 847 B, SOT 23
C 4		100n	CER 50V, 10%, X7R, 0805		Q 51	50.60,0001	BC847B	Q BC 847 B, SOT 23
C 5		100n	CER 50V, 10%, X7R, 0805	0	Q 52	50.60.0001	BC847B	Q BC 847 B, SOT 23
C 6		2n2	CER 50V, 10%, X7R, 0805	0	Q 53	50.60.0001	BC847B	Q BC 847 B, SOT 23
C 7	59.60.3317	2n2	CER 50V, 10%, X7R, 0805	0	Q 54	50.60.0001	BC847B	Q BC 847 B, SOT 23
C 8	59.60,3317	2n2	CER 50V, 10%, X7R, 0805	0	Q 55	50.60.0001	BC847B	Q BC 847 B, SOT 23
C 9	59.60.3317	2n2	CER 50V, 10%, X7R, 0805	0	Q 56	50.60.0001	BC847B	Q BC 847 B, SOT 23
C 10		18p	CER 50V. 5%, C0G. 0603	ō	Q 57	50.60.0001	BC847B	Q BC 847 B. SOT 23
C 11		33p	CER 50V, 5%, C0G, 0603	0	Q 58	50.60.0001	BC847B	Q BC 847 B. SOT 23
C 12		33p	CER 50V, 5%, C0G, 0603		400	00.00.0001	500475	G 50 047 5, 001 25
		100n		0	R1		OR0	MF, 0204
C 13	59.60.3337		CER 50V, 10%, X7R, 0805			not used		
C 14	59.60,3337	100n	CER 50V, 10%, X7R, 0805	0	R 5	57.60.1101	100R	MF, 1%, 0204, E24
C 15	59.22.4002	100uF	EL 16V, 20%, RM5	0	R 6	57.60.1101	100R	MF, 1%, 0204, E24
C 16	59.22.4002	100uF	EL 16V, 20%, RM5	0	R 7	57.60.1101	100R	MF, 1%, 0204, E24
C 17	59.22.4002	100uF	EL 16V, 20%, RM5	0	R 8	57.60.1101	100R	MF, 1%, 0204, E24
C 18		100n	CER 50V, 10%, X7R, 0805	0	R 9	57.60.1682	6K8	MF, 1%, 0204, E24
C 19	59 60 3337	100n	CER 50V. 10%, X7R, 0805	0	R 10	57.60.1682	6K8	MF, 1%, 0204, E24
C 39	59,60,3325	100II	CER 50V, 10%, X7R, 0805	0	R 11	57.60.1682	6K8	
								MF, 1%, 0204, E24
C 40	59.60.3325	10n	CER 50V, 10%, X7R, 0805	0	R 12	57.60.1682	6K8	MF, 1%, 0204, E24
C 41	59.60.3325	10n	CER 50V, 10%, X7R, 0805	0	R 13	not used	100k	POT 2 *100 K LIN
C 42	59.60.3325	10n	CER 50V, 10%, X7R, 0805	0	R 14	not used	100k	POT 2 *100 K LIN
C 43	59.60.3325	10n	CER 50V, 10%, X7R, 0805	0	R 15	1.010.039.58		POT 100K,LIN,21 RASTSTELLUNG
C 44	59.60,3325	10n	CER 50V, 10%, X7R, 0805	ō	R 16	57.60.1682	6K8	MF, 1%, 0204, E24
C 45	59.60.3325	10n	CER 50V, 10%, X7R, 0805	0	R 17	57.60.1682	6K8	MF, 1%, 0204, E24
C 46	59.60.3325 59.60.3325		CER 50V, 10%, X/R, 0605	0	R 18	57.60.1662	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
		10n						
C 47	59.22.6100	10u	EL 35V, 20%, RM5	0	R 19	57.60.1682	6K8	MF, 1%, 0204, E24
C 48	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	R 20	57.60.1103	10K	MF, 1%, 0204, E24
C 52	59.22.6100	10u	EL 35V, 20%, RM5	0	R 21	57.60.1682	6K8	MF, 1%, 0204, E24
				0	R 22	57.60.1682	6K8	MF, 1%, 0204, E24
D t	50 60 8001	444R	D 11 4448 SOD 80	0	R 23	57.60 1682	6KB	MF. 1% 0204 E24
	50.60.8001	4448		0	R 24	57.60.1682	6KB	MF, 1%, 0204, E24
D 5							6KB	
D 6	50.60.8001	4448	D LL 4448 SOD 80	0	R 25	57.60.1682		MF, 1%, 0204, E24
				0	R 26	57.60.1682	6KB	MF, 1%, 0204, E24
IC 1	50,62,1004	74HC 04	74 HC 04	0	R 27	57.60.1682	6K8	MF, 1%, 0204, E24
IC 3	50.62.1595	74HC595	74 HC 595	0	R 28	57.60.1682	6K8	MF, 1%, 0204, E24
IC 4	50.62.1595	74HC595	74 HC 595	0	R 29	57.60.1682	6KB	MF, 1%, 0204, E24
IC 5	50.62.1596	74HC595	74 HC 595	0	R 30	57.60.1682	6K8	MF, 1%, 0204, E24
		74HC595		0	R 31		6K8	MF, 1%, 0204, E24
IC 6	50.62.1595		74 HC 595			57.60.1682		
IC 7	50.62.1165	74HC165	74 HC 165	0	R 32	57.60.1682	6KB	MF, 1%, 0204, E24
IC 8	50.62.1165	74HC165	74 HC 165	0	R 33	57.60.1682	6K8	MF, 1%, 0204, E24
IC 9	50.62.1165	74HC165	74 HC 165	0	R 34	57.60.1682	6KB	MF, 1%, 0204, E24
IC 10	50.62.1165	74HC165	74 HC 165	0	R 35	57.60.1682	6K8	MF. 1%, 0204, E24
IC 12	1.950.900.22		SW 860 MONITOR (50.16.0313)	0	R 36	57.60.1682	6K8	MF. 1%, 0204, E24
IC 12		0011000		0	R 37	57.60.1682	6K8	
	50.61.8101	68HC68	A/D Converter 10bit 8Ch SO 20	0			8K8	MF, 1%, 0204, E24
IC 14	50.15.0115	75176	IC SN 75176 BP, DS 3695 N.		R 38	57.60.1682		MF, 1%, 0204, E24
IC 15	50.62.1165	74HC165	74 HC 165	0	R 39	57.60.1682	6K8	MF, 1%, 0204, E24
				0	R 40	57.60.1682	6K8	MF, 1%, 0204, E24
MP 1	1.990.430.01 1 pce		FRONTSCHILD STUDIO MONITOR	0	R 41	57.60.1682	6K8	MF, 1%, 0204, E24
MP 2	1,990,490,02 1 pce		TRAEGER SOURCE SELECTOR 20PB	0	R 42	57,60.1682	6K8	MF, 1%, 0204, E24
MP 3		M3*8	L-Schraube IS sw spezial	0	R 43	57.60.1682	6K8	MF. 1%, 0204, E24
		MO 0						
MP 4	24.16.3023 2 pcs		WELLENSICHERUNG 2.3	0	R 44	57.60.1682	6K8	MF, 1%, 0204, E24
MP 5		M3*4	S - Schraube Zn gb chr	0	R 45	57.60.1103	10K	MF, 1%, 0204, E24
MP 6	1.990.100.01 2 pcs		QUERPRINTSTUETZE	0	R 46	57.60.1103	10K	MF, 1%, 0204, E24
MP 7	1.950.870.04 1 pce		STUDER NR. ETIKETTE 10x20	0	R 47	57.60.1103	10K	MF, 1%, 0204, E24
MP 8	1,950.891.11 1 pce		PANEL ADAPTER RS 485 PCB	0	R 50	57.60.1103	10K	MF, 1%, 0204, E24
MP 9	89.01.1499 1 pce		QUARZ - ISOLIERPLATTE	ō	R 51	57.60.1101	100R	MF, 1%, 0204, E24
MP 10	43.01.0108 1 pce	Label	ESE-WARNSCHILD	0	R 53	not used	100k	POT 2 *100 K LIN
MP 11	28.99.0119 2 pcs	Person	ROHRNIETE D 2.5*0.15* 9	0	R 55	57.60.1150	15R	MF, 1%, 0204, E24
MP 11 MP 12								
	42.01.0233 1 pce		KNEBELKNOPF GR D 15/4	0	R 56	57.92.1820	94mA	PTC, 60V, 50 Ohm
MP 13	42.01.0257 1 pce		DECKEL H'GR ZU KNOPF-D 15	0	R 57	57.92.1820	94mA	PTC, 60V, 50 Ohm
MP 14	1.101.001.20 1 pce	Label	TEXT-ETIK. 5*20 HARDWARE -20	0	R 58	57.92.7016	1.6A	POLY- PTC, 50V
				0	R 59	57.92.7016	1.6A	POLY- PTC, 50V
P 2	54.11.2013	32p	EU-BK 2*18p	0	R 60	57.60,1103	10K	MF, 1%, 0204, E24
P 5	54.11.0125 53 pcs		P STIFT, WINKEL 1 PIN=1 STK.	0	R 105	57.60.1000	080	MF 0204
-	a .z.a aa paa			0	R 106	57.60.1000	0R0	MF. 0204
Q1	50,60.0001	BC847B	Q BC 847 B. SOT 23	0	R 107		0R0	MF. 0204
						57.60.1000		
Q 2	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	R 108	57.60.1000	0R0	MF, 0204
Q 3	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	R 109	57.60.1000	0R0	MF, 0204
Q 4	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	R 111	57.60.1000	0R0	MF, 0204
Q 31	50.60.0001	BC847B	Q BC 847 B. SQT 23	0	R 112	57.60.1000	0R0	MF, 0204
Q 32	50.60.0001	BC847B	Q BC 847 B, SOT 23	٠				
Q 33	50.60.0001	BC847B		0	RZ 17	57.88.4104	8*100k	2%. SIP 9
Q 34	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 20	57.88.4104	8*100k	2%, SIP 9
Q 35	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 21	57.88.4104	8*100k	2%, SIP 9
Q 36	50.60.0001	BC847B	Q BC 847 B SOT 23	0	RZ 22	57.88.4104	8*100k	2%, SIP 9
Q 37	50.60.0001	BC847B	Q BC 847 B. SOT 23	0	RZ 23	57.88.4104	8*100k	2%. SIP 9
Q 38	50.60.0001	BC847B	Q BC 847 B, SOT 23 Q BC 847 B, SOT 23	0	RZ 30	57.88.4104 57.88.4104	8*100k	2%, SIP 9 2%, SIP 9
Q 39	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 31	57.88.4104	8*100k	2%, SIP 9
	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 32	57.88.4104	8*100k	2%, SIP 9
Q 40		BC847B	Q BC 847 B. SOT 23	0	RZ 33	57.88.4104	8*100k	2%, SIP 9
Q 40 Q 41	50.60,0001							
Q 41	50.60.0001 50.60.0001							2.0, 0.0
Q 41 Q 42	50.60.0001	BC847B	Q BC 847 B, SOT 23					2.1, 5.1
Q 41								

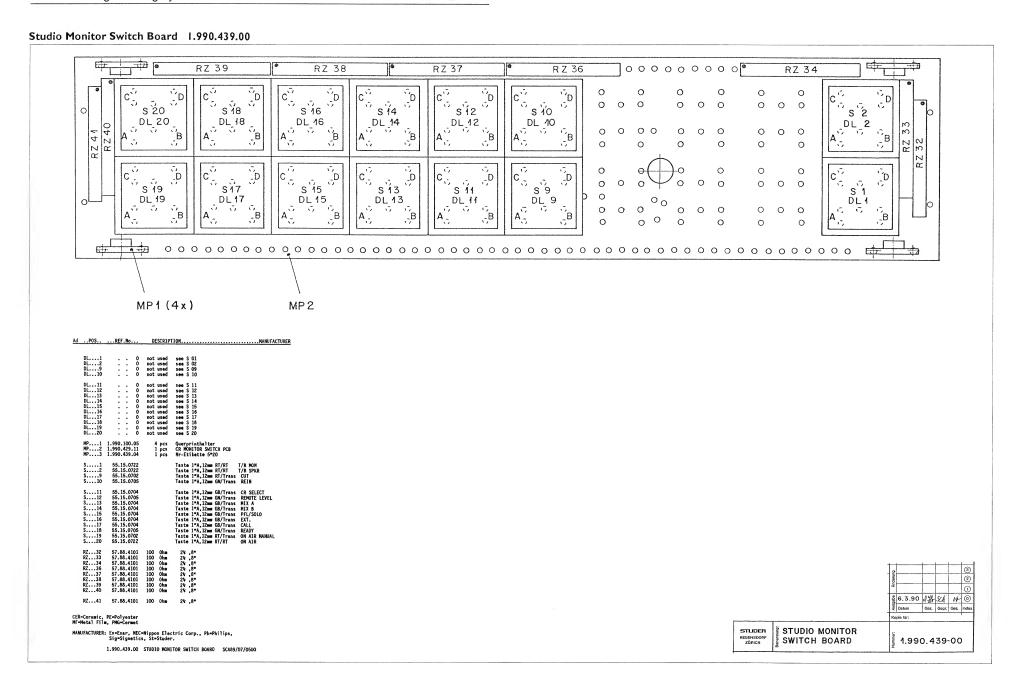
0 X	(IC 12	53.03.0165		20p	DIL 0.3", löt, gerade
0 X	(IC 14	53.03.0166	pce	8p	DIL 0.3", löt, gerade
0 Y	12	89.01.1016		22.1184MHz	22.118 400 MHz, HC 49/U

Comments:



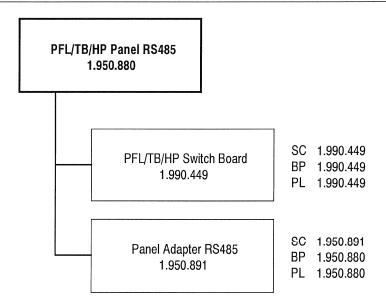
Studio Monitor Switch Board 1.990.439.00





PFL/TB/HP Panel RS485, Components

1.950.880



SC: Circuit Diagram

BP: Component Placement Diagram

PL: Parts List

PFL / TB / HP Panel RS 485 1.950.880.20 MP45(4x) MP12 (3x) MP14 MP3 (4x) MP 4 MP 2 MP5(5x) ₩ **((** J2 MP6 00 SUSU . O. C41 R9 RID MP8 R55 C48 шин 11111111 ____<u>5</u>2 11 02 R46 11111111 'mmm' 0 0 0 0 0 0 0 0 64 59 11111111 1847 0000 <u> 11111111</u>, Ö 11111111 HIIIII 111111111 1111111 • • • • • • • 0 0 Ansicht von A 00000000 R7 . . LITZE SCHWARZ = W LITZE BLAU = W 10: 8/1 Ĭ CUT J1= Litze blk Litze blu 1 Litze blu 2 Litze wht 1 DIRECT Litze wht 2 J2= Litze blk Litze blu Litze wht HEADPHONES RETURN T/B EXT RETURN SOL0 INT. SER. EXT ? STUDIO SEL MP 16 AUT0 CUE MP18 30Hz MP 19 29.9.97 B B 8 27.6.97 R M M 0 Datum Gez. Gepr. Ges. Inde 1/B 1/B SOLO OMN] LOCK T/B 유용 JINTER LOCK PFL/TB/HP SAFE STUDER Panel RS 485 ESE 1.950.880-20



PFL / TB / HP Panel RS 485 1.950.880.22

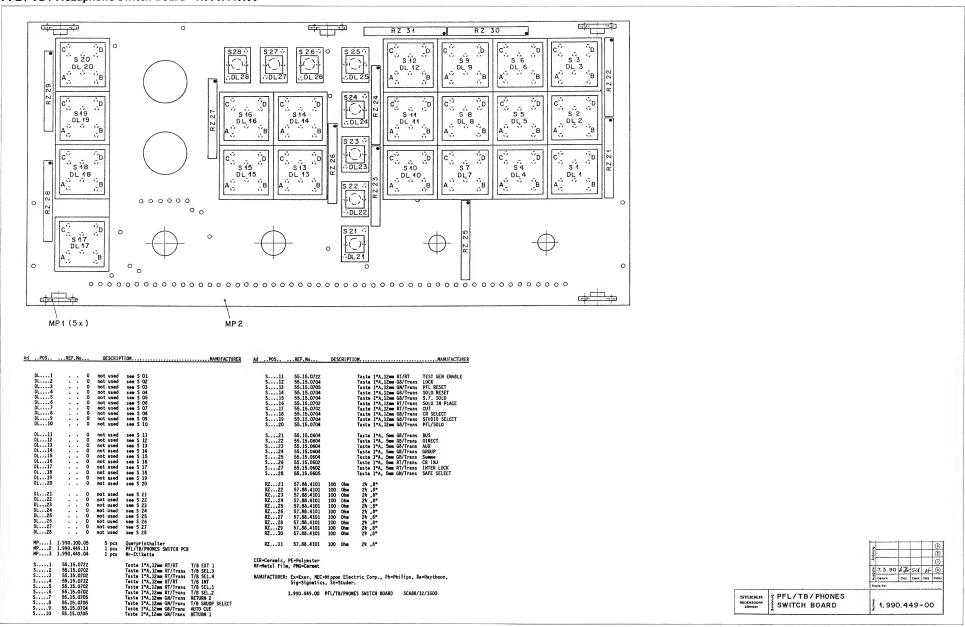
		J 1.730.000.22									
Pos.	Part No. Qty. Type/Val.	Description	ldx. Pos.	Part No. Qty.	Type/Val.	Description	dx. Pos.	Part No. Qty.	Type/Val.	Description	
1	1.990.449.00 1 pce	PFL/TB/PHONES SWITCH BOARD	0 Q 35	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 RZ 20	57.88.4104	8*100k	2%, SIP 9	
			0 Q 36	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 RZ 21	57.88.4104	8*100k	2%, SIP 9	
	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q 37	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 RZ 22		8*100k	2%, SIP 9	
	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q38	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 RZ 23		8*100k	2%, SIP 9	
	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q39	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 RZ 30		8*100k	2%, SIP 9	
	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q 40	50.60.0001	BC847B	Q BC 847 B, SOT 23	6 RZ 31		8*100k	2%, SIP 9	
5	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q 41	50.60,0001	BC847B	Q BC 847 B, SOT 23	0 RZ 32		8*100k	2%, SIP 9	
6	59.60.3317 2n2	CER 50V, 10%, X7R, 0805	0 Q 42	50.60.0001	BO847B	Q BC 847 B, SOT 23	0 RZ 33	57.88.4104	8*100k	2%, SIP 9	
7	59.60.3317 2n2	CER 50V, 10%, X7R, 0805	0 Q 43	50.60.0001	BC847B	Q BC 847 B, SOT 23					
8	59.60.3317 2n2	CER 50V, 10%, X7R, 0805	0 Q 44	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 W 1	64.03.0505 1 pce		FLEX-STRIP, 6-POL,L=63.5 MM	
9	59.60.3317 2n2	CER 50V, 10%, X7R, 0805	0 Q 45	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 W 2	1.010.210.64 2 pcs	str wire	LITZE SW,120MM, M.RASTKONTAKT	
10	59.60.2231 18p	CER 50V, 5%, C0G, 0603	0 Q46	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 W3	1.010.216.64 3 pcs		LITZE BL,120MM, M.RASTKONTAKT	
11	59.60.2237 33p	CER 50V, 5%, C0G, 0603	0 Q 47	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 W4	1.010.219.64 3 pcs		LITZE WS,120MM, M.RASTKONTAKT	
12	59.60.2237 33p	CER 50V, 5%, C0G, 0603	0 Q 48	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 XIC 12	53.03.0165	20p	DIL 0.3", lot, gerade	
13	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q 49	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 XIC 14		8p	DIL 0.3", lôt, gerade	
14	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q 50	50.60.0001	BC847B	Q BC 847 B, SOT 23	0 70011	0010010100 pos			
15	59.22.4002 100uF	EL 16V, 20%, RM5	0 Q 51	50.60,0001	BC847B	Q BC 847 B, SOT 23	0 Y2	89.01.1016	22 1184MHz	22.118 400 MHz, HC 49/U	
16	59.22.4002 100uF	EL 16V, 20%, RM5	0 Q 52	50.60.0001	BC847B	Q BC 847 B, SOT 23		00.01.1010	ALE THE STATE OF		
17	59.22.4002 100uF	EL 16V, 20%, RM5	0 Q 53	50.60.0001	BC847B	Q BC 847 B, SOT 23					
18	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q 54	50.60,0001	BC847B	Q BC 847 B, SOT 23		E	ind of List	and or Andrews and the Control of th	
19	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 Q 55	50.60.0001	BC847B	Q BC 847 B, SOT 23	Comments:				
39	59.60.3325 10n	CER 50V, 10%, X7R, 0805	0 Q 56	50.60.0001	BC847B	Q BC 847 B. SOT 23	***************************************				
40	59.60.3325 10n	GER 50V, 10%, X7R, 0805	0 Q 57	50.60.0001	BC847B	Q BC 847 B. SOT 23					
241	59.60.3325 10n	CER 50V, 10%, X7R, 0805	0 Q 58	50.60,0001	BC847B	Q BC 847 B. SOT 23					
42	59.60.3325 10n	CER 50V, 10%, X7R, 0805		40.00.0001	500410	4 50 041 D, GOT 23					
3 42	59.60.3325 10n 59.60.3325 10n	CER 50V, 10%, X7R, 0805	0 R1	not used	0R0	MF. 0204					
	59.60.3325 10n 59.60.3325 10n	CER 50V, 10%, X7R, 0805 CER 50V, 10%, X7R, 0805	0 R5	57 60 1101	1008						
3 44	59.60.3325 10n	CER 50V, 10%, X/R, 0805	0 R6	57.60.1101	100R	MF, 1%, 0204, E24 MF, 1%, 0204, E24					
C 45 C 46		CER 50V, 10%, X/R, 0805 CER 50V, 10%, X/R, 0805	0 R7	57.60.1101	100R 100R						
	59.60.3325 10n 59.22.6100 10u		0 R8	57.60.1101 57.60.1101	100R 100R	MF, 1%, 0204, E24					
47		EL 35V, 20%, RM5	0 R9			MF, 1%, 0204, E24					
48	59.60.3337 100n	CER 50V, 10%, X7R, 0805	0 R9	57.60.1682	6K8	MF, 1%, 0204, E24					
52	59.22.6100 10u	EL 35V, 20%, RM5		57.60.1682	6K8	MF, 1%, 0204, E24					
53	59.03.2104 2 pcs 100n	MPETP, 10%, 250V	0 R 11	57.60.1682	6K8	MF, 1%, 0204, E24					
			0 R 12	57.60.1682	6K8	MF, 1%, 0204, E24					
1	50.60.8001 4448	D LL 4448 SOD 80	0 R 13	1.010.032.58	100k	POT 2 *100 K LIN					
5	50.60.8001 4448	D LL 4448 SOD 80	0 R 14	1.010.027.58		POT 100 K LIN,					
0.6	50.60.8001 4448	D LL 4448 SOD 80	0 R 15	1.010.027.58		POT 100 K LIN,					
			0 R 16	57.60.1682	6K8	MF, 1%, 0204, E24					
C 1	50.62.1004 74HC 04	74 HC 04	0 R 17	57.60.1682	6K8	MF, 1%, 0204, E24					
IC 3	50.62.1595 74HC595	74 HC 595	0 R 18	57.60.1682	6K8	MF, 1%, 0204, E24					
C 4	50.62.1595 74HC595	74 HC 595	0 R 19	57.60.1682	6K8	MF, 1%, 0204, E24					
5 5	50.62.1595 74HC595	74 HC 595	0 R 20	57.60,1103	10K	MF, 1%, 0204, E24					
C 6	50.62.1595 74HC595	74 HC 595	0 R 21	57.60.1682	6K8	MF, 1%, 0204, E24					
C 7	50.62,1165 74HC165	74 HC 165	0 R 22	57.60.1682	6K8	MF, 1%, 0204, E24					
C 8	50.62.1165 74HC165	74 HC 185	0 R 23	57.60.1682	6K8	MF, 1%, 0204, E24					
IC 9	50.62.1165 74HC165	74 HC 165	0 R 24	57.60.1682	6K8	MF, 1%, 0204, E24					
IC 10	50.62.1165 74HC165	74 HC 165	0 R 25	57.60.1682	6K8	MF, 1%, 0204, E24					
IC 12	1.950.900.22	SW 860 MONITOR (50.16.0313)	0 R 26	57.60.1682	6K8	MF, 1%, 0204, E24					
IC 13	50.61.8101 68HC68	A/D Converter 10bit 8Ch SO 20	0 R 27	57.60.1682	6K8	MF, 1%, 0204, E24					
IC 14	50.15.0115 75176	IC SN 75176 BP, DS 3695 N,	0 R 28	57.60.1682	6K8	MF, 1%, 0204, E24					
C 15	50.62.1165 74HC165	74 HC 165	0 R 29	57.60.1682	6K8	MF, 1%, 0204, E24					
			0 R 30	57.60.1682	6K8	MF, 1%, 0204, E24					
11	54.24.0103 2 pcs	J 3 POL., KLINKE 6.3 MM	0 R 31	57.60.1682	6KB	MF, 1%, 0204, E24					
			0 R 32	57.60.1682	6K8	MF, 1%, 0204, E24					
(P 1	1.990.440.01 1 pce	FRONTSCHILD PFL/TB/PHONES	0 R 33	57.60.1682	6K8	MF, 1%, 0204, E24					
1P 2	1.990.440.02 1 pce	TRAEGER PFL/TB PHONES	0 R 34	57.60.1682	6K8	MF, 1%, 0204, E24					
1P 3	1.010.022.21 4 pcs M3*8	L-Schraube IS sw spezial	0 R 35	57.60.1682	6K8	MF, 1%, 0204, E24					
IP 4	24.16.3023 4 pcs	WELLENSICHERUNG 2.3	0 R 36	57.60.1682	6K8	MF, 1%, 0204, E24					
1P 5	21.01,2352 6 pcs M3*4	S - Schraube Zn gb chr	0 R 37	57.60.1682	6K8	MF, 1%, 0204, E24					
4P 6	1.990.100.01 1 pce	QUERPRINTSTUETZE	0 R 38	57.60.1882	6KB	MF, 1%, 0204, E24					
1P 7	1.950.880.04 1 pce	STUDER NR. ETIKETTE 10x20	0 R 39	57.60.1682	6K8	MF, 1%, 0204, E24					
IP 8	1.950.891.11 1 pce	PANEL ADAPTER RS 485 PCB	0 R 40	57.60.1682	6K8	MF, 1%, 0204, E24					
P S	89.01.1499 1 pce	QUARZ - ISOLIERPLATTE	0 R 41	57.60.1682	6K8	MF, 1%, 0204, E24					
P 10	43.01.0108 1 pce Label	ESE-WARNSCHILD	0 R 42	57.60.1682	6K8	MF, 1%, 0204, E24					
P 11	28.99.0119 2 pcs	ROHRNIETE D 2.5*0.15* 9	0 R 43	57.60.1682	6K8	MF, 1%, 0204, E24					
P 12	42.01.0228 3 pcs	KNEBELKNOPF GR D 10/4	0 R 44	57.60.1682	6K8	MF, 1%, 0204, E24					
P 13	42.01.0203 1 pce	DREHKNOPF GR, D 10/4	0 R 45	57.60.1103	10K	MF, 1%, 0204, E24					
P 14	1.912.000.03 1 pce	DREHRING D 6.2 / 13	0 R 46	57.60.1103	10K	MF. 1%, 0204, E24 MF. 1%, 0204, E24					
MP 15	42.01.0250 4 pcs	DECKEL H'GR ZU KNOPF-D 10	0 R 47	57 60 1103	10K	MF. 1%, 0204, E24					
IP 16	1.990.100.03 1 pce	QUERPRINTSTUETZE RECHTS	0 R 50	57.60.1103	10K	MF, 1%, 0204, E24					
AP 10 AP 17	1.990.100.03 1 pce 1.990.440.03 2 pcs	FUEHRUNGSBUCHSE FUER JACK	0 R 51	57.60.1103	100R	MF, 1%, 0204, E24 MF, 1%, 0204, E24					
MP 18	21,51,8354 1 pce M3*6	Linsenkoof-Schr IS, Ni	0 R 53	1.010.027.58	.001	POT 100 K LIN.					
IP 10	24.16.2030 1 pce Wars	FAECHERSCHEIBE A D 3.2	0 R 55	57 60 1150	159	MF, 1%, 0204, E24					
P 19	29.26.1022 1 pce 3.2	Lötöse d3.2/5.5 * 10.5	0 R 56	57.92.1820	94mA	NF, 1%, 0204, E24 PTC. 60V. 50 Ohm					
20	29.26.1022 1 pce 3.2 1.101.001.20 1 pce Label	TEXT-ETIK, 5*20 HARDWARE -20	0 R 57	57.92.1820 57.92.1820	94mA 94mA	PTC, 60V, 50 Ohm PTC, 60V, 50 Ohm					
- 21	1.101.001.20 T pce Label	IEAT-ETTA, 5'ZU HARDWARE -20	0 R 58	57.92.1820 57.92.7016	94mA 1.6A	PTC, 60V, 50 Ohm POLY-PTC 50V					
2	54 44 0040 00	ELL DIV ONCO	0 R 59	57.92.7016	1.6A 1.6A	POLY- PTC, 50V POLY- PTC, 50V					
	54.11.2013 32p	EU-BK 2*16p	0 R 60								
5	54.11.0125 53 pcs 1p	P STIFT,WINKEL 1 PIN≃1 STK.	0 R 60 0 R 105	57.60.1103	10K	MF, 1%, 0204, E24					
				not used	ORO.	MF, 0204					
1	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 R 106	not used	0R0	MF, 0204					
2	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 R 107	57.60.1000	0R0	MF, 0204					
3	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 R 108	not used	0R0	MF, 0204					
	50.80.0001 BC847B	Q BC 847 B, SOT 23	0 R 109	57,60,1000	0R0	MF, 0204					
4	50 60 0001 BC847B	Q BC 847 B. SOT 23	0 R 111	57,60,1000	0R0	MF, 0204					
31											
2 4 2 31 2 32	50.60.0001 BC847B	Q BC 847 B, SOT 23	0 R 112	not used	0R0	MF, 0204					
31		Q BC 847 B, SOT 23 Q BC 847 B, SOT 23 Q BC 847 B, SOT 23	0 R112 0 RZ17	not used 57.88.4104	0R0 8*100k	MF, 0204 2% SIP 9					

PFL / TB / Headphone Switch Board 1.990.449.00

L/ IB/ Heauph	one Switch Board	1.770.447.00			
23 A S2	a DL1	8 2 1 1	-	o DL12 7 31 1 5 31 1	7
<u>5</u>	TB EXT 1 2 c d	7 21 1 6 21 1	ON AIR = 24	d 4 31 1	†
9 A S5	TB EXT 2 _4	5 21 1 4 21 1 3 21 1 2 21 1	PFL ⇒36	0 D113 6 26 1 b 7 26 1 c 5 26 1 d 4 28 1	
□11 ○ ↑ S6	a 0L3	6 22 1 7 22 1		0 DL14 9 27 1 b 8 27 1	
13 A S8	18 EXT 3 <u>6</u>	5 22 1	PFL/SOLO == 38 RESET == 38	c 2 27 1 3 27 1	
17 S9	TB INT _8	8 25 1 9 25 1 6 25 1 7 25 1	\$0L0 <u>40</u>	c 3 26 1	-
21 0 511	30 HZ10 c	5 30 1 4 30 1 2 30 1	SOLO ⇔42	o DL16 7 27 1 6 8 27 1	
_35	a DL6	8 22 1	of Compa	a DL17 9 28 1	
□ 37 ○ △ S14 □ S15 □ S15	OMNI = 12 c	3 22 1	CUT <u>44</u>	b 8 28 1	-
41 S16	RETURN 2 <u>14</u> c d	3 25 1 2 25 1 5 25 1 4 25 1	CR SEL <u>=⁴6</u>	0 0L18 5 28 1 28 1 28 1 28 1 28 1 28 1 28 1	-
45 S19	PFL/BROAD _16c	7 24 1 5 24 1 3 31 1 2 31 1	STUDIO SEL =48	b 8 29 1 c 6 29 1	+
25 A 521 27 A 522	TB LOCK _18	9 30 1 7 30 1 8 30 1	PFL SEL <u>⇒⁵⁰</u>	b 425	
=29	RETURN 1 (= 20 c d	3, 21	BUS = 26	01.21 9 23 1 0 0 22 8 23 1	
\$25 \$55 \$526	AUTO CUE = 22 c	9 24 1 2 23 1 9 31 1 8 31 1	GROUP = 32	0.23 7 23 1	
63 S27		31	Σ = 34 CR INJ = 66	DL26 2 24 1	+
OVL = 52			INTER LOCK = 64	0L27 4 24 1 1 0L28 5 24 1	
		1		DL28 5_24_1	

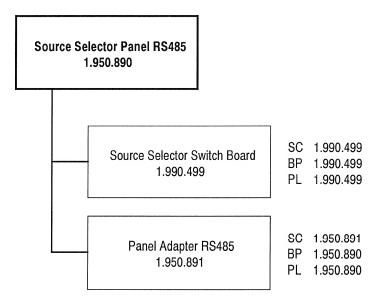
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STUDIER PRODUCER	PFL/TB/HP	Switchboo	rd	1.990.449.0	0

PFL / TB / Headphone Switch Board 1.990.449.00



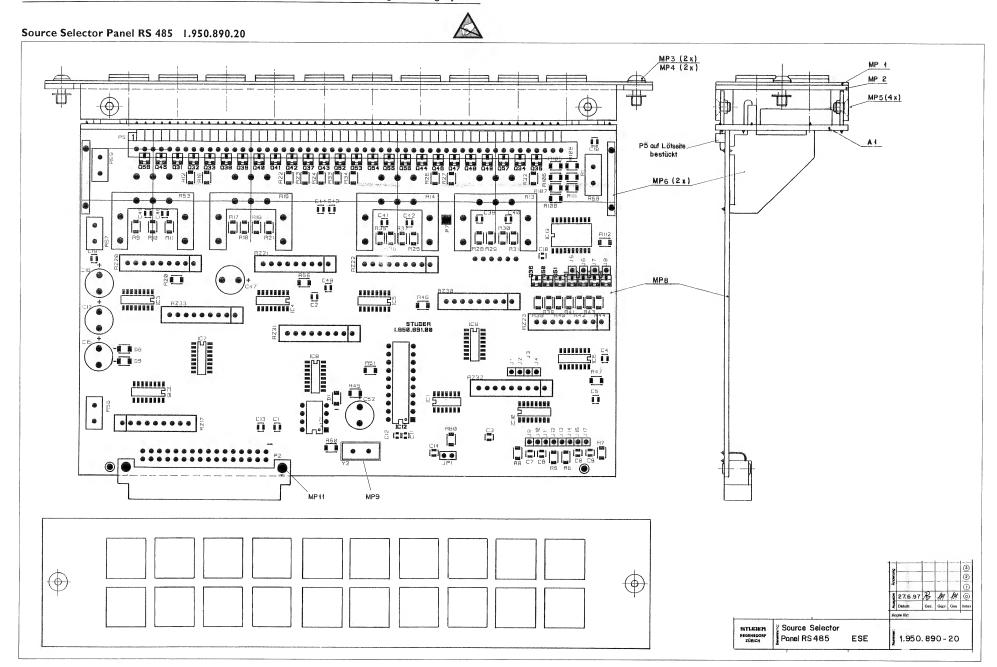
Source Selector Panel RS485, Components

1.950.890



SC: Circuit Diagram
BP: Component Placement Diagram

PL: Parts List





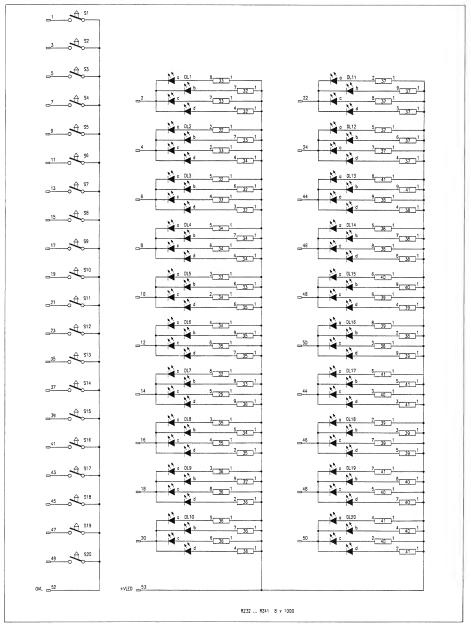
Source Selector Panel RS 485 1.950.890.22

x. Pos.	Part No. Qty.	Type/Val.	Description	ldx.	Pos.	Part No. Qty.	Type/Val.	Description
A1	1.990.499.00 1 pce		SOURCE SELECTOR SWITCH BOARD	0	Q 48	50.60.0001	BC847B	Q BC 847 B, SOT 23
				0	Q 49	50.60,0001	BC847B	Q BC 847 B, SOT 23
C1	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	Q 50	50.60.0001	BC847B	Q BC 847 B, SOT 23
C 2	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	Q 51	50.60.0001	BC847B	Q BC 847 B, SOT 23
C 3	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	Q 52	50.60.0001	BC847B	Q BC 847 B, SOT 23
	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	Q 53 Q 54	50.60.0001 50.60.0001	BC847B BC847B	Q BC 847 B, SOT 23 Q BC 847 B, SOT 23
C 5	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	Q 55			
C 6	59.60.3317	2n2 2n2	CER 50V, 10%, X7R, 0805	0	Q 56	50.60.0001 50.60.0001	BC847B BC847B	Q BC 847 B, SOT 23 Q BC 847 B, SOT 23
C 7	59.60.3317		CER 50V, 10%, X7R, 0805 CER 50V, 10%, X7R, 0805	0	Q 57	50.60.0001	BC847B	Q BC 847 B, SOT 23
C 8	59.60.3317	2n2 2n2	CER 50V, 10%, X/R, 0805 CER 50V, 10%, X/R, 0805	0	Q 57 Q 58	50.60.0001	BC847B BC847B	Q BC 847 B. SOT 23
C 9 C 10	59.60.3317			U	Q 50	1000,000.00	BC04/B	Q BC 847 B, SO 1 23
	59.60.2231 59.60.2237	18p 33p	CER 50V, 5%, C0G, 0603 CER 50V, 5%, C0G, 0603	0	R 1	57.60.1000	ORO	MF, 0204
C 11 C 12		33p	CER 50V, 5%, COG, 0603	0	R5	57.60.1101	100R	MF, 1%, 0204, E24
	59.60.2237		CER 50V, 5%, C0G, 0603 CER 50V, 10%, X7R, 0805	0	R6	57.60.1101	100R	MF, 1%, 0204, E24 MF, 1%, 0204, E24
C 13	59.60.3337	100n 100n	CER 50V, 10%, X/R, 0805	0	R7	57.60.1101	100R	MF, 1%, 0204, E24 MF, 1%, 0204, E24
C 14	59.60.3337			0	R8	57.60.1101	100R	MF, 1%, 0204, E24 MF, 1%, 0204, E24
C 15	59.22.4002	100uF 100uF	EL 16V, 20%, RM5 EL 16V, 20%, RM5	0	R9	57.60.1101	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
C 16	59.22.4002	100uF 100uF	EL 16V, 20%, RM5	0	R 10	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
C 17	59.22.4002	100ur 100n	CER 50V, 10%, X7R, 0805	0	R 10	57,60,1682	6K8	MF. 1%, 0204, E24 MF. 1%, 0204, E24
C 18	59.60.3337	100n 100n	CER 50V, 10%, X/R, 0805	0	R 12	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
C 19	59.60.3337			0	R 12		100k	POT 2 *100 K LIN
C 39	59.60.3325	10n 10n	CER 50V, 10%, X7R, 0805 CER 50V, 10%, X7R, 0805	0	R 14	not used not used	100k	POT 2 *100 K LIN
C 40 C 41	59.60.3325							
C 41	59.60.3325	10n 10n	CER 50V, 10%, X7R, 0805 CER 50V, 10%, X7R, 0805	0	R 15 R 16	not used 57.60.1682	100k 6K8	POT 2 *100 K LIN MF, 1%, 0204, E24
C 42	59.60.3325		CER 50V, 10%, X7R, 0805 CER 50V, 10%, X7R, 0805	0	R 16	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
C 43	59.60.3325	10n 10n		0			6KB	
C 44	59.60.3325		CER 50V, 10%, X7R, 0805	0	R 18 R 19	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 ME, 1%, 0204, E24
C 45 C 46	59.60.3325 59.60.3325	10n 10n	CER 50V, 10%, X7R, 0805 CER 50V, 10%, X7R, 0805	0	R 19 R 20	57.60.1682 57.60.1103	10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
				0	R 21	57.60.1103 57.60.1682	6KB	MF, 1%, 0204, E24 MF, 1%, 0204, E24
C 47	59.22.6100 59.60.3337	10u 100n	EL 35V, 20%, RM5 CER 50V, 10%, X7R, 0805	0	R 21 R 22	57.60.1682 57.60.1682	6KB	MF, 1%, 0204, E24 MF, 1%, 0204, E24
C 48				0	R 23	57.60.1682	6K8	MF, 1%, 0204, E24
C 52	59.22.6100	10u	EL 35V, 20%, RM5	0	R 24	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
		4448	D LL 4448 SOD 80	0	R 25	57.60.1682 57.60.1682	6KB	MF, 1%, 0204, E24 MF, 1%, 0204, E24
D 1	50,60.8001	4448	D LL 4448 SOD 80	0	R 26	57.60.1682 57.60.1682	6K8	
D 5	50.60.8001	4448	D LL 4448 SOD 80	0	R 27	57.60.1682	6KB	MF, 1%, 0204, E24 MF, 1%, 0204, E24
D 6	50.60.8001	4448	D LL 4448 SOD 80	0	R 28	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
IC 1	50.82.1004	74HC 04	74 HC 04	0	R 29	57.60.1682	6KB	MF, 1%, 0204, E24
		74HC 04 74HC595	74 HC 04 74 HC 595	0	R 30	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
IC 3	50.62.1595			0	R 31		6K8	
IC 4	50.62,1595	74HC595	74 HC 595 74 HC 595	0	R 31	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
IC5	50.62.1595	74HC595 74HC595	74 HC 595 74 HC 595	0	R 32	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
	50.62.1595	74HC595 74HC165	74 HC 595 74 HC 165	0	R 34	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
IC7	50.62,1165 50.62,1165	74HC165	74 HC 165	0	R 35	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
IC8	50.62.1165	74HC165	74 HC 165 74 HC 165	0	R 36	57.60.1682	6K8	MF, 1%, 0204, E24
IC 10	50.62,1165	74HC165 74HC165	74 HC 105 74 HC 165	0	R 37	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
IC 10	1.950.900.22	74HC 103	SW 860 MONITOR (50.16.0313)	0	R 38	57.60.1682	6K8	MF, 1%, 0204, E24
				0	R 38	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
IC 13	50.61.8101	68HC68	A/D Converter 10bit 8Ch SO 20	0	R 40	57.60.1682	6KB	MF, 1%, 0204, E24
	50.15.0115	75178	IC SN 75176 BP, DS 3695 N,	0	R 41	57.60.1682	6K8	MF, 1%, 0204, E24
IC 15	50.62.1165	74HC165	74 HC 165	0	R 42	57.60.1682 57.60.1682	6KB	MF, 1%, 0204, E24 MF, 1%, 0204, E24
				0	R 43	57.60.1682	6KB	MF, 1%, 0204, E24
MP1	1.990.490.01 1 pce		FRONTSCHILD SOURCE SEL. 20PB	0	R 44	57.60.1682	6K8	MF, 1%, 0204, E24
MP 2	1.990.490.02 1 pce	M3*8	TRAEGER SOURCE SELECTOR 20PB	0	R 45	57.60.1103	10K	MF, 1%, 0204, E24
MP3	1.010.022.21 2 pcs	M3*8	L-Schraube IS aw spezial WELLENSICHERUNG 2.3	0	R 46	57.60.1103	10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
MP4	24.16.3023 2 pcs			0	R 40	57.60.1103	10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
MP5	21.01.2352 4 pcs	M3*4	S - Schraube Zn gb chr	0	R 50	57.60.1103	10K	
MP6	1.990.100.01 2 pcs		QUERPRINTSTUETZE STUDER NR. ETIKETTE 10x20	0	R 50	57.60.1103 57.60.1101	10K 100R	MF, 1%, 0204, E24 MF, 1%, 0204, E24
	1.950.890.04 1 pce			0	R 53	not used	100K	POT 2 *100 K LIN
MP8	1.950.891.11 1 pce 89.01.1499 1 pce		PANEL ADAPTER RS 485 PCB QUARZ - ISQLIERPLATTE	0	R 55	57.60.1150	100K	MF. 1%, 0204, E24
		1-6-1	QUARZ - ISOLIERPLATTE ESE-WARNSCHILD	0	R 56	57.60.1150 57.92.1820	15R 94mA	MF, 1%, 0204, E24 PTC, 60V, 50 Ohm
MP 10	43.01.0108 1 pce	Label		0	R 57	57.92.1820	94mA	PTC, 60V, 50 Ohm
MP 11 MP 12	28.99.0119 2 pcs	Label	ROHRNIETE D 2.5°0.15° 9 TEXT-ETIK, 5°20 HARDWARE -20	0	R 5/	57.92.1820 57.92.7016	1.6A	POLY-PTC, 50V
MP 12	1.101.001.20 1 pce	Lapel	TEXT-ETIN, 0-20 HARDWAKE-20	0	R 59	57.92.7016 57.92.7016	1.6A 1.6A	POLY- PTC, 50V POLY- PTC, 50V
		20	EU-BK 2*160	0	R 60	57.92.7016 57.60.1103	1.6A 10K	MF, 1%, 0204, E24
P 2	54.11.2013	32p		0	R 105	57.60.1103 57.60.1000	10K 0R0	MF, 1%, 0204, E24 MF. 0204
) P5	54.11.0125 53 pc	s 1p	P STIFT, WINKEL 1 PIN=1 STK.	0	R 105	57.60.1000 57.60.1000	ORO	MF, 0204 MF 0204
0.1	FO 02 022	BC847B	Q BC 847 B. SOT 23	0	R 106	57.60.1000 57.60.1000	0R0	MF, 0204 MF, 0204
0 01	50.60.0001 50.60.0001	BC847B BC847B	Q BC 847 B, SOT 23 Q BC 847 B, SOT 23	0	R 107	57.60.1000	0R0	MF. 0204
		BC847B BC847B		0	R 108	57.60.1000	ORO	MF, 0204
Q3	50,60,0001			0	R 109	57.60.1000	ORO	MF. 0204
Q 4 Q 21	50.60.0001	BC847B BC847B	Q BC 847 B, SOT 23 Q BC 847 B, SOT 23	0	R 111 R 112	57.60.1000 57.60.1000	0R0 0R0	MF, 0204 MF. 0204
	50.60.0001			U	11.112	57.00.1000	UNU	WII., UZU4
Q 32	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 17	57.88.4104	8*100k	2%, SIP 9
Q 33	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 17 RZ 20	57.88.4104 57.88.4104	8*100k 8*100k	2%, SIP 9 2%, SIP 9
0 Q 34	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 20 RZ 21	57.88.4104 57.88.4104	8*100k 8*100k	2%, SIP 9 2%, SIP 9
Q 35	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 21 RZ 22	57.88.4104 57.88.4104		
Q 36	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 22 RZ 23	57.88.4104 57.88.4104	8*100k 8*100k	2%, SIP 9 2%, SIP 9
0 Q 37	50.60.0001	BC847B	Q BC 847 B, SOT 23					
0 Q 38	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 30	57.88.4104	8*100k	2%, SIP 9
0 Q 39	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 31	57.88.4104	8*100k	2%, SIP 9
0 Q 40	50.60.0001	BC847B	Q BC 847 B, SOT 23	0	RZ 32	57.88.4104	8*100k	2%, SIP 9
0 Q 41	50.60.0001	BC847B	Q BC 847,B, SOT 23	0	RZ 33	57.88.4104	8*100k	2%, SIP 9
0 Q 42	50.60.0001	BC847B	Q BC 847 B, SOT 23					
Q 43	50.60.0001	BC847B	Q BC 847 B, SOT 23					
0 Q 44	50.60.0001	BC847B	Q BC 847 B, SOT 23					
0 Q 45	50.60.0001	BC847B	Q BC 847 B, SOT 23					
Q 46	50.60,0001	BC847B	Q BC 847 B, SOT 23					
0 0 47	50.80.0001	BC847B	Q BC 847 B. SOT 23					

ldx.	Pos.	Part No.	Qty.	Type/Vial.	Description
0	XIC 12	53.03.0165		20p	DIL 0.3", löt, gerade
0	XIC 14	53.03.0166	pce	8р	DIL 0.3", löt, gerade
0	Y 2	89.01.1016		22.1184 MHz	22.118 400 MHz, HC 49/U
				End of Lisit	

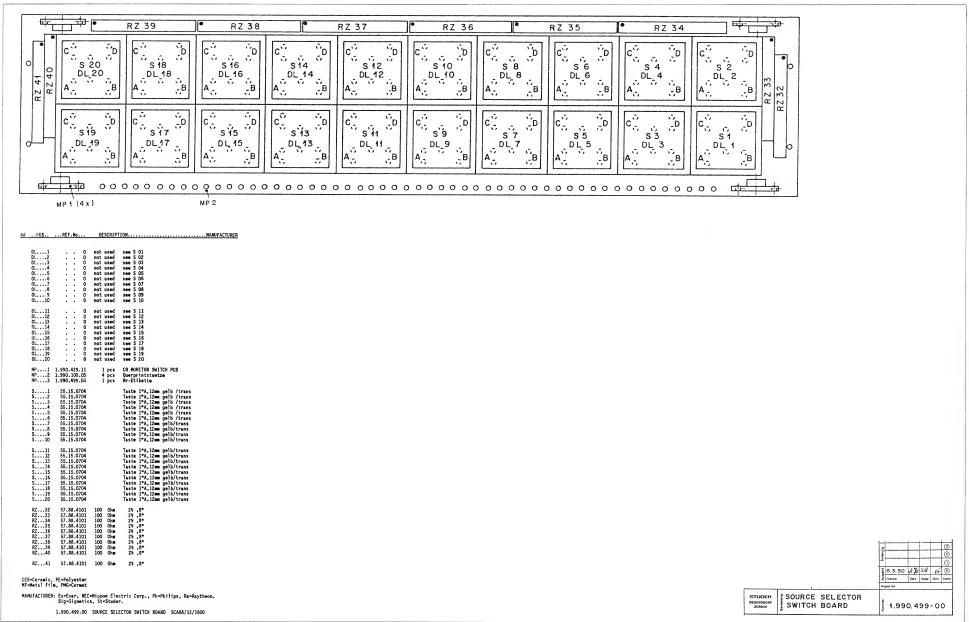
Comments

Source Selector Switch Board 1.990.499.00



D 3.4.98	0	K)	0	 0		
990499-S					PAGE 1	OF	1
REGENSIORF	Source	Selector	Switchboard		1.990.	499.	00

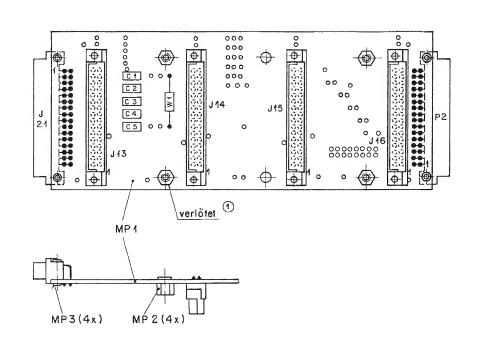
Source Selector Switch Board 1.990.499.00



HDLC Bus Board 12A 1.992.170.00



HDLC Bus Board A4 1.992.171.00



ldx	Pos.	Part No.	Qty.	Type/Val.	Description
1	C 1	not used		68n	PETP, 63V, 10%, RM5
1	C 2	not used		68n	PETP, 63V, 10%, RM5
1	C 3	not used		68n	PETP, 63V, 10%, RM5
1	C 4	not used		68n	PETP, 63V, 10%, RM5
1	C 5	not used		68n	PETP, 63V, 10%, RM5
0	J 13	54.11.2014		2*16p	EU-BK 2*16p female
0	J 14	54.11.2014		2*16p	EU-BK 2*16p female
0	J 15	54.11.2014		2*16p	EU-BK 2*16p female
0	J 16	54.11.2014		2*16p	EU-BK 2*16p female
2	J 21	not used		32p	EU-QK 2*16p
0	MP 1	1.992.171.13	1 pce		HDLC BUS PCB 4B
0	MP 2	1.010.014.22	4 pcs	3*4.5	NIETMUTTER SW 6 M 3 *4,5
2	MP 3	not used	4 pcs		ROHRNIETE D 2.5*0.15* 9
0	MP 4	1.992.171.04	1 pce		NRETIKETTE 5 * 20
2	P 2	not used		2*16p	EU-BK 2*16p male
0	P 3	not used		2*16p	EU-BK 2*16p male
1	W 1	not used		not used	not used

End of List -

Comments: (01) 12.02.99 C1...C5, W1 not used (02) J21, MP3, P2 not used

		t-		-		-	(3)
		Anderung	3.9.90	74	al	W	② ①
		agge	22.11.89	A. Hr	W	ce	0
		+-	Detum ple für:	Gez	Gepr	Ges	index
STUDER REGENSDORF ZÜRICH	BUS BOARD 4A	Nummer	1.992	.17	4-0	00	

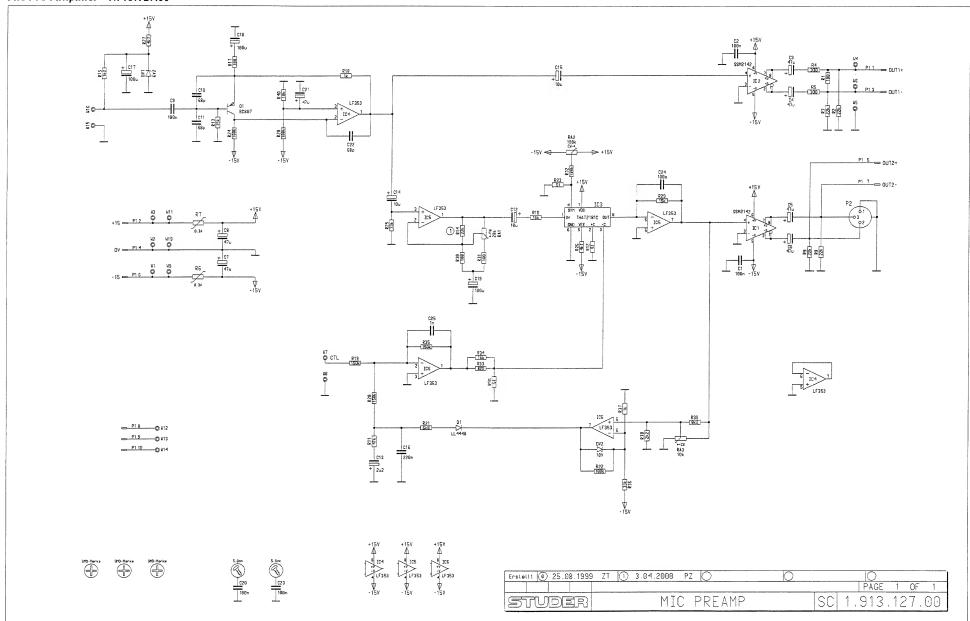
CIRCUIT DIAGRAMS SECTION 6

Meter Panel Units

TB Mic Unit consisting of:	. 1.913.128
– Mic Pre-Amplifier	. 1.913.127
AUX Indicator 4 × LED	. 1.913.135
LED PPM Meter	. 1.913.291
PFL Amplifier	. 1.913.200
PFL Amplifier with Volume & Headphone Jack	. 1.913.202

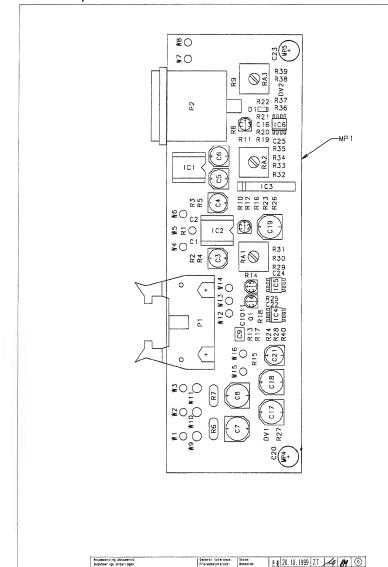
Date printed: 05.03.02 Section 6

Mic Pre-Amplifier 1.913.127.00



Mic Pre-Amplifier 1.913.127.00

STUDER :



MIC PREAMP, ESE

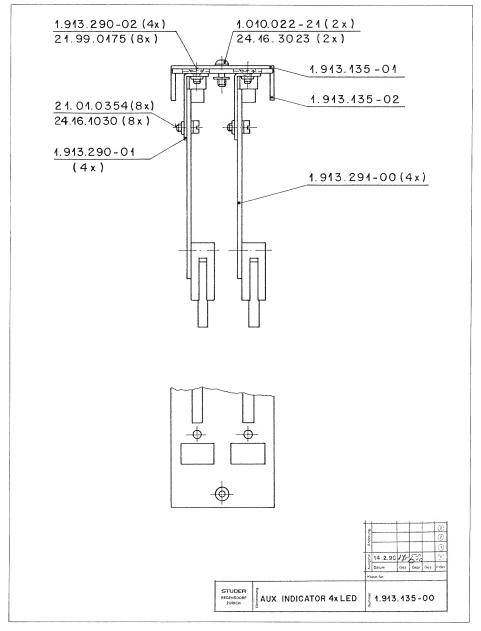
Z 1.913.127.00

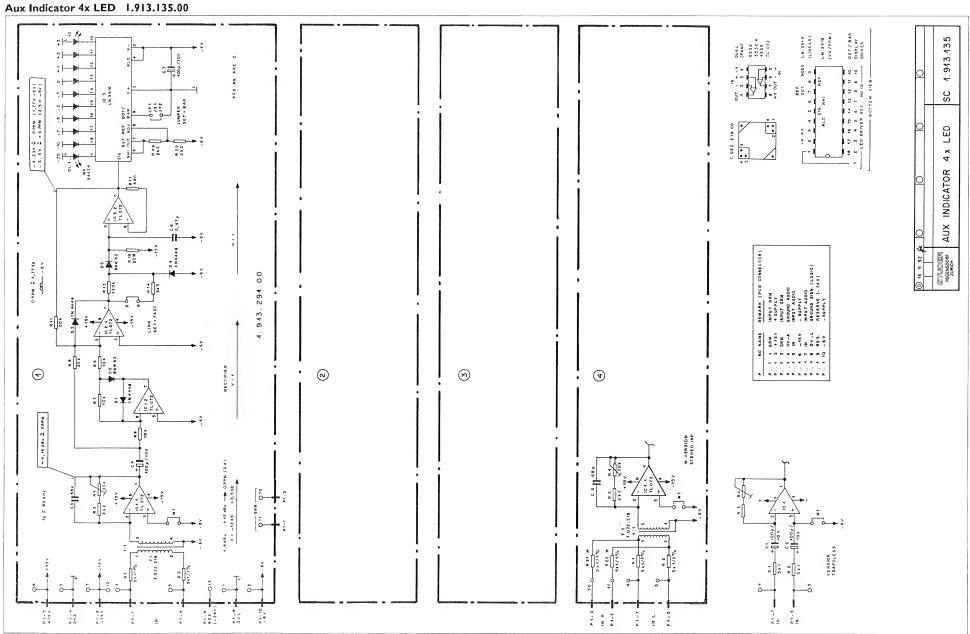
ldx	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.60.3337		100n	CER 50V. 10%, X7R, 0805
0	C 2	59.60.3337		100n	CER 50V, 10%, X7R, 0805
0	C 3	59.68.0069		47u	EL 16V, 6.3°5.7
0	C 4	59.68.0069		47u	EL 16V, 6.3*5.7
0	C 5	59.68.0069		47u	EL 16V, 6.3*5.7
0	C 6	59.68,0069		47u	EL 16V, 6.3*5.7
0	C 7	59.68.0113		47u	EL 35V, 8.0*6.3
0	C 8	59.68.0113		47u	EL 35V, 8.0*6.3
0	C 9	59.63.0125		100n	PEN 50V, 5%, 1812
0	C 10	59.60.2245		68p	CER 50V, 5%, COG, 0603
0	C 11	59.60.2245		68p	CER 50V, 5%, C0G, 0603
0	C 12	59.68.0065		10u	EL 16V, 4.0*5.7
0	C 13	59.68.0129		2u2	EL 50V, 4.0*5.7
0	C 14	59.68.0065		10u	EL 16V, 4.0*5.7
0	C 15	59.68.0065		10u	EL 16V, 4.0°5.7
0	C 16	59.60.3441		220n	CER 50V, 10%, X7R, 1206
0	C 17	59.68.0071		100u	EL 16V, 8.0*6.3
0	C 18	59.68.0071		100u	EL 16V, 8.0*6.3
0	C 19	59.68.0071		100u	EL 16V, 8.0°6.3
0	C 20	59.60.3337		100n	CER 50V, 10%, X7R, 0805
0	C 21	59.68.0069		47u	EL 16V, 6.3*5.7
0	C 22	59.60.2245		68p	CER 50V, 5%, COG, 0803
0	C 23	59.60.3337		100n	CER 50V, 10%, X7R, 0805
0	C 24	59.60.2249		100p	CER 50V, 5%, COG, 0603
0	C 25	59.60.2373		1n0	CER 50V, 5%, C0G, 0805
0	D 1	50.60.8001		4448	200mA 75V 4ns SOD 80
0	DV 1	50.60.9012		6V2	5%, 0.2W, SOT 23
0	DV 2	50.60.9017		10V	5%, 0.2W, SOT 23
0	IC 1	50.09.0124		2142	Audio balanced line driver
0	1C 2	50.09.0124		2142	Audio balancad line driver
0	IC 3	50.11.0140			IC VCA THAT 2181C
0	IC 4	50.61.0207		LF353	Dual Op-Amp JFET SO 8
0	IC 5	50.61.0207		LF353	Dual Op-Amp JFET SO 8
0	IC 6	50.61.0207		LF353	Dual Op-Amp JFET SO 8
0	MP 1	1.913.127.11	mp		Mic Preamplifier PCB
0	MP 2	1.913.127.10	mp		NrEtikette 5 * 20
0	MP 3	43.01.0108	mp	Label	ESE-WARNSCHILD
0	MP 4	1.010.016.22			NIETMUTTER SW 6 M 3 * 5
0	MP 5	1.010.016.22			NIETMUTTER SW 6 M 3 * 5
1	MP 6	43.10.0110		Α	Revisions-Etikette 5mm h'biau
0	P 1	54.14.2011		10p	Winkelstacker Au
0	P 2	not used		3р	XLR PCB Winkal
0	Q 1	50.60.1050		BC807-25	PNP 45V 800mA SOT 23

dx	Pos.	Part No. Qty.	Type/Val.	Description
0	R1	57.60.1101	100R	MF, 1%, 0204, E24
0	R2	57.60.1223	22K	MF, 1%, 0204, E24
0	R3	57.60.1223	22K	MF, 1%, 0204, E24
0	R 4	57,60,1331	330R	MF, 1%, 0204, E24
0	R5	57.60,1331	330R	MF, 1%, 0204, E24
0	R6	57.92.7012	0.3A	PTC 60V
0	R7	57.92.7012	0.3A	PTC 60V
0	R8	57.60.1223	22K	MF, 1%, 0204, E24
0	R9	57.60,1223	22K	MF, 1%, 0204, E24
0	R 10	57.60.1153	15K	MF, 1%, 0204, E24
0	R 11	57,60,1473	47K	MF, 1%, 0204, E24
0	R 12	57.60.1510	51R	MF, 1%, 0204, E24
0	R 13	57.60.1153	15K	MF, 1%, 0204, E24
1	R 14	57.60.1223	22K	MF, 1%, 0204, E24
ò	R 15	57.60.1122	1K2	MF, 1%, 0204, E24
0	R 16	57.60.1510	51R	MF, 1%, 0204, E24
0	R 17	57.60.1101	100R	MF, 1%, 0204, E24
0.	R 18	57.60.1102	1K	MF, 1%, 0204, E24
0	R 19	57,60,1154	150K	MF, 1%, 0204, E24
0	R 20	57.60.1154	150K	MF, 1%, 0204, E24
0	R 21	57.60.1682	6K8	MF, 1%, 0204, E24
0	R 22	57.60.1104	100K	MF, 1%, 0204, E24
0	R 23	57.60.1510	51R	MF, 1%, 0204, E24
0	R 24	57.60.1104	100K	MF, 1%, 0204, E24
0	R 25	57.60.1333	33K	MF, 1%, 0204, E24
0	R 26	57.60.1472	4K7	MF, 1%, 0204, E24
ō	R 27	57.60.1472	4K7	MF, 1%, 0204, E24
0	R 28	57.60.1104	100K	MF, 1%, 0204, E24
0	R 29	57.60.1153	15K	MF, 1%, 0204, E24
0	R 30	57.60.1101	100R	MF, 1%, 0204, E24
0	R 31	57.60.1101	100R	MF, 1%, 0204, E24
0	R 32	57.60.1184	180K	MF, 1%, 0204, E24
0	R 33	57.60.1821	820R	MF, 1%, 0204, E24
0	R 34	57.60.1153	15K	MF, 1%, 0204, E24
0	R 35	57.60.1154	150K	MF, 1%, 0204, E24
0	R 36	57.60.1333	33K	MF, 1%, 0204, E24
0	R 37	57.60.1102	1K	MF, 1%, 0204, E24
0	R 38	57.60.1222	2K2	MF, 1%, 0204, E24
0	R 39	57.60.1822	8K2	MF, 1%, 0204, E24
0	R 40	57.60.1103	10K	MF, 1%, 0204, E24
0	RA 1	58.01.8203	20k	Cermet, 10%, 0.5W, horizonta
0	RA 2	not used	100k	Cermet, 10%, 0.5W, horizonte
0	RA3	58.01.8103	10k	Carmet, 10%, 0.5W, horizonta
			End of Li	st

Comments:

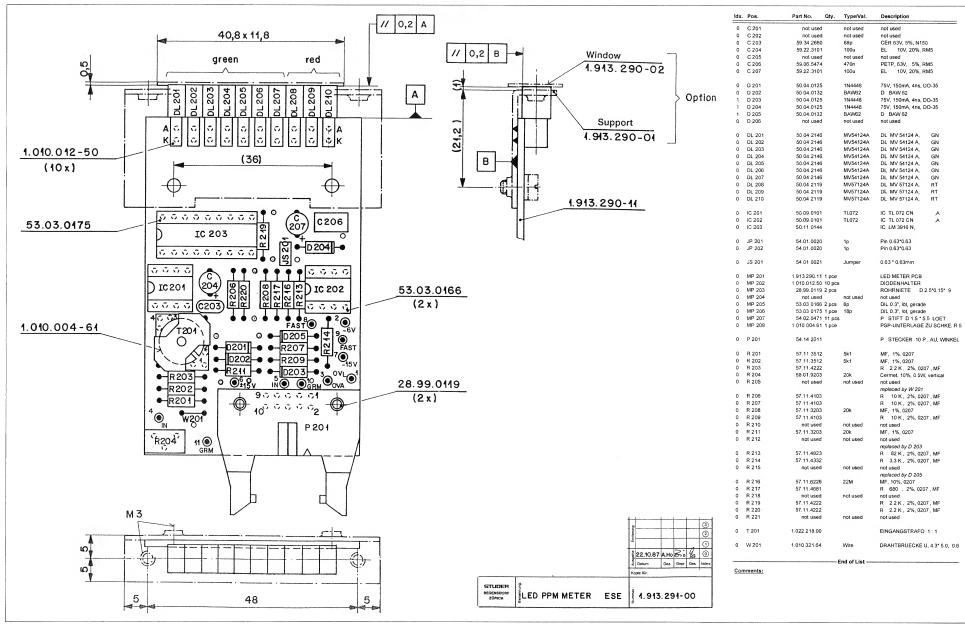
Aux Indicator 4x LED 1.913.135.00



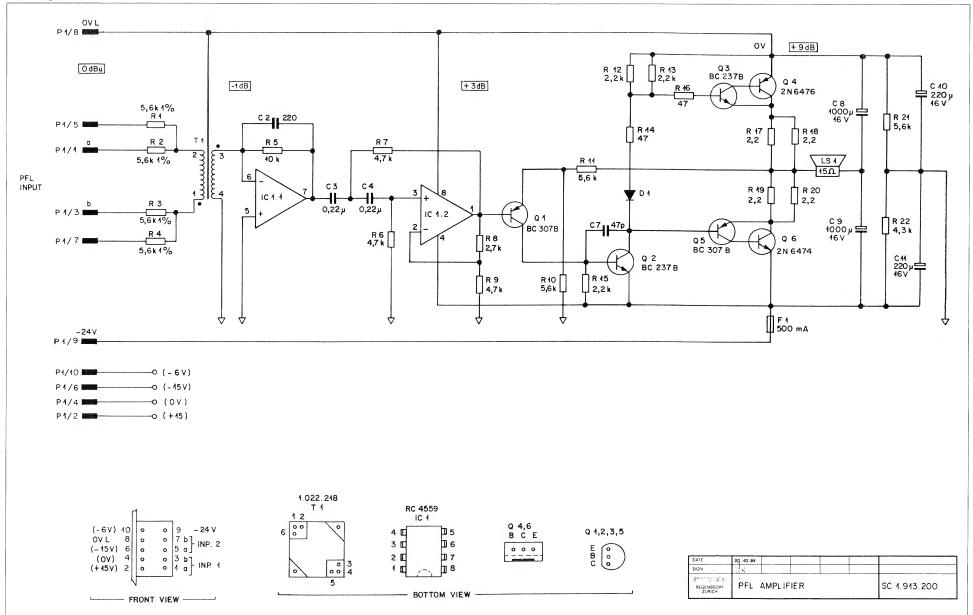


LED PPM Meter 1.913.291.00

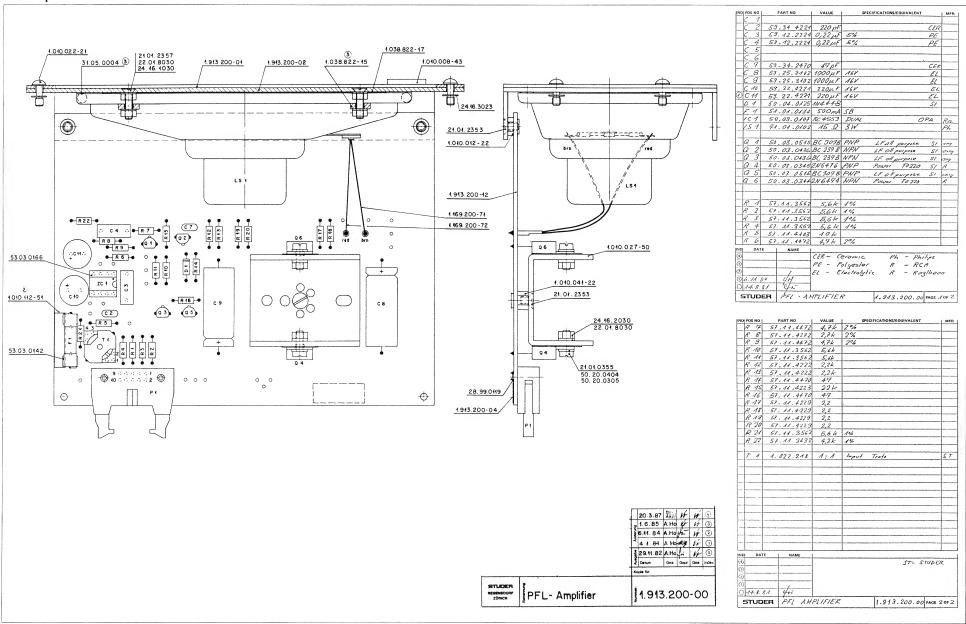




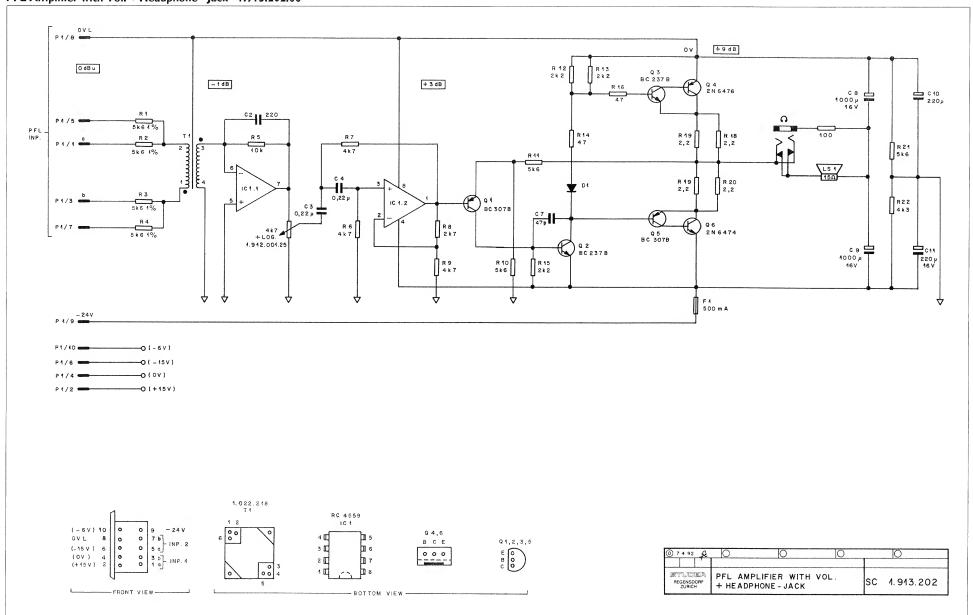
PFL Amplifier 1.913.200.00



PFL Amplifier 1.913.200.00



PFL Amplifier with Vol. + Headphone - Jack 1.913.202.00



CIRCUIT DIAGRAMS SECTION 7

Euro Card Units, Power Supply

Power Supply	3V6V	. 1.915.111
Power Supply	5V/20A	
	±15V/3.4A	
	24V/4.2A	. 1.940.603

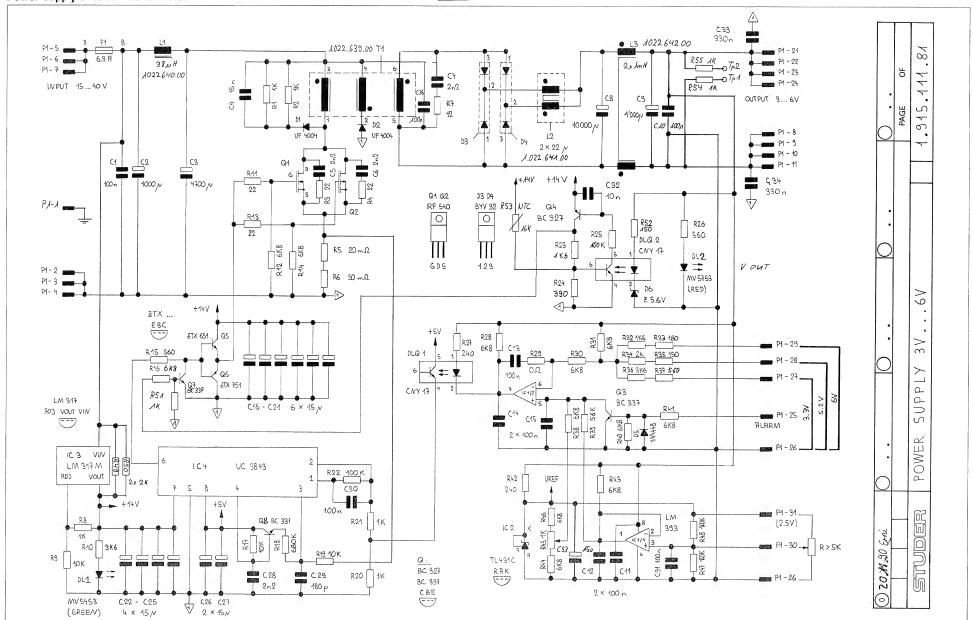
Euro Card Units, Monitoring

Analog Source Selector	1.917.400
Monitor Group Selector	1.917.410
Insert Router Board	1.917.415
Talkback Selector	1.917.420
Talkback Sel Sideboard	1.917.421
Signaling IN 24CH Board	1.917.425.22
Signaling OUT 16CH Board	1.917.426.22
Dual Headphone Amp. Board	1.917.430.23

Date printed: 20.02.02 Section 7

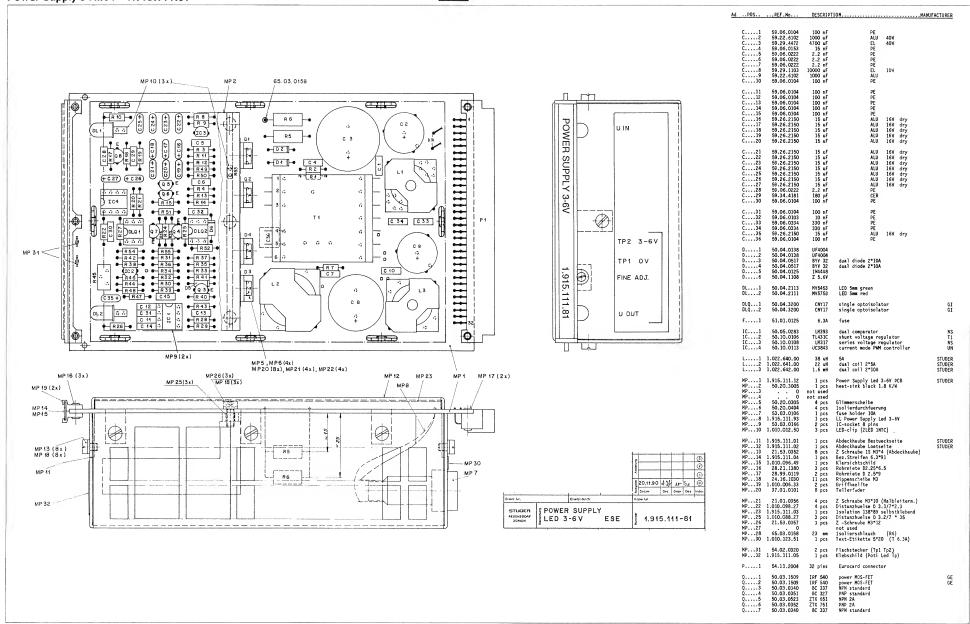








Power Supply 3V...6V 1.915.111.81







wer s	Supply 3	8V6V	1.915.111.81	
POS	REF.No	DESCRIPT	ONMANUFACTURER	
Q8	50.03.0340	BC 337	NPN standard	
R	57.11.3102 57.11.3102 57.11.3220 57.11.3220 57.56.2020 57.56.2050 57.11.3102 57.11.3103 57.11.3362	1 kOhm 1 kOhm 22 Ohm 22 Ohm 20 mOhm 50 mOhm 12 Ohm 1 kOhm 10 kOhm 3.6 kOhm	3W small L (10nH) 3W small L (10nH) 5%	
R11 R12 R13 R14 R15 R16 R17 R18 R19 R20	57.11.3220 57.11.3682 57.11.3682 57.11.3682 57.11.3561 57.11.3682 57.11.3103 57.11.3103 57.11.3103	22 Ohm 6.8 kOhm 22 Ohm 6.8 kOhm 560 Ohm 6.8 kOhm 10 kOhm 680 kOhm 10 kOhm 1 kOhm	54 54	
R21 R22 R23 R24 R25 R26 R27 R28 R29 R30	57.11.3102 57.11.3104 57.11.3162 57.11.3391 57.11.3561 57.11.3561 57.11.3682 57.11.3682 57.11.3682	1 kOhm 100 kOhm 1.6 kOhm 390 Ohm 100 kOhm 560 Ohm 240 Ohm 6.8 kOhm 0 Ohm 6.8 kOhm		
R31 R32 R33 R34 R35 R36 R37 R38 R39 R40	57.11.3682 57.11.3181 57.11.3202 57.11.3151 57.11.3362 57.11.3561 57.11.3682 57.11.3682	6.8 kOhm 1.6 kOhm 180 Ohm 2 kOhm 150 Ohm 3.6 kOhm 6.8 kOhm 56 kOhm 6.8 kOhm	15 15 15 15 15 15 15 15	
R41 R42 R43 R44 R45 R46 R47 R48 R49 R50	57.11.3682 57.11.3241 57.11.3682 57.11.3682 58.01.9102 57.11.3104 57.11.3104 57.11.3202 57.11.3202	6.8 kOhm 240 Ohm 6.8 kOhm 1 kOhm 1 kOhm 100 kOhm 100 kOhm 2 kOhm 2 kOhm	1% trimmer 1% 1% 1%	
R51 R52 R53 R54 R55	57.11.3102 57.11.3151 57.99.0220 57.11.3102 57.11.3102	1 kOhm 150 Ohm 16 kOhm 1 kOhm 1 kOhm	NTC	
	1.022.639.00		Schalttrafo Power Supply 3 - 6V STUDER	
≖Polyester	. EL=Electroly	tic, ALU=Alu	minium, CER=Ceramic	
NUFACTURE	R: NS=National GI=General I GE=General E	nstruments,	rs, TI=Texas Instrument UN=Unitrod,	
	1.915.111.81		(LED 3-6V SE 92/01/2400	

+5 V, ±15 V, +24 V POWER SUPPLY UNITS

General

For the power supply of the On-Air 5000 mixing system, standard 19" units with wide-range input and power factor correction are used, equipped with a Studer front panel.

Studer Part No.	Description
1.940.601.81	Power Supply 5 V/20 A
1.940.602.81	Power Supply ±15 V/3.4 A
1.940.603.81	Power Supply 24 V/4.2 A



Important

As the power supply units are safety-relevant parts, they may be serviced only by authorized personnel using original spare parts.

For replacement or repair, contact your nearest Studer representative.

Specifications

Mains Voltages 100...240 VAC

Mains Frequency 47...440 Hz

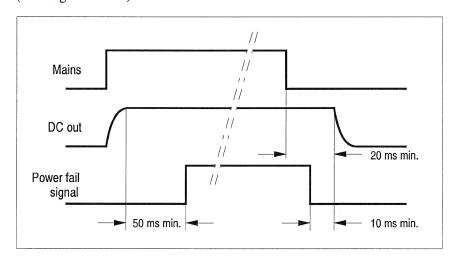
Efficiency typ. 75%

Output Power 100 W total

Output(s) short-circuit protected, main output(s) overload protected (110%)

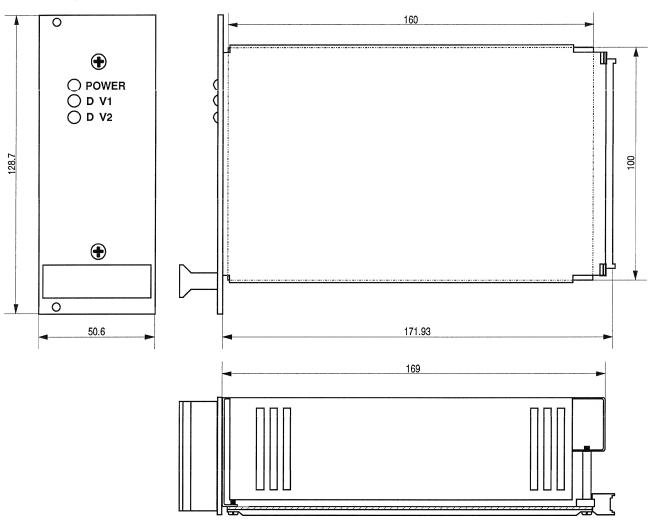
Power Down (Logic Inhibit) Control input, TTL compatible, active high (5 V/1.6 mA)

Power Fail Output, open collector, TTL compatible, active low (max. 30 V/16 mA) (see diagram below).

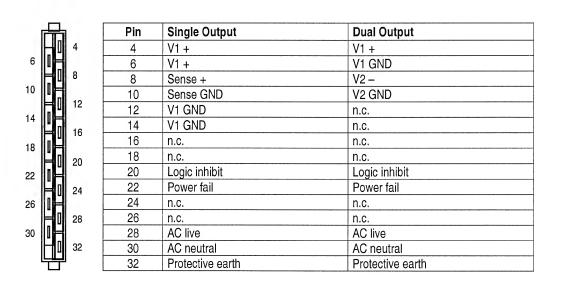




Dimensions (mm)

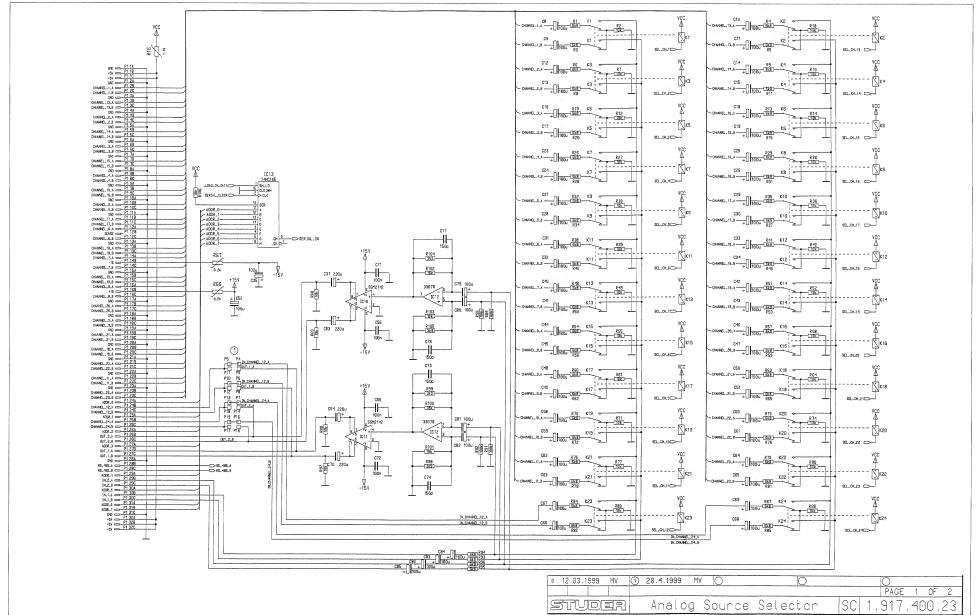


Pin Assignment



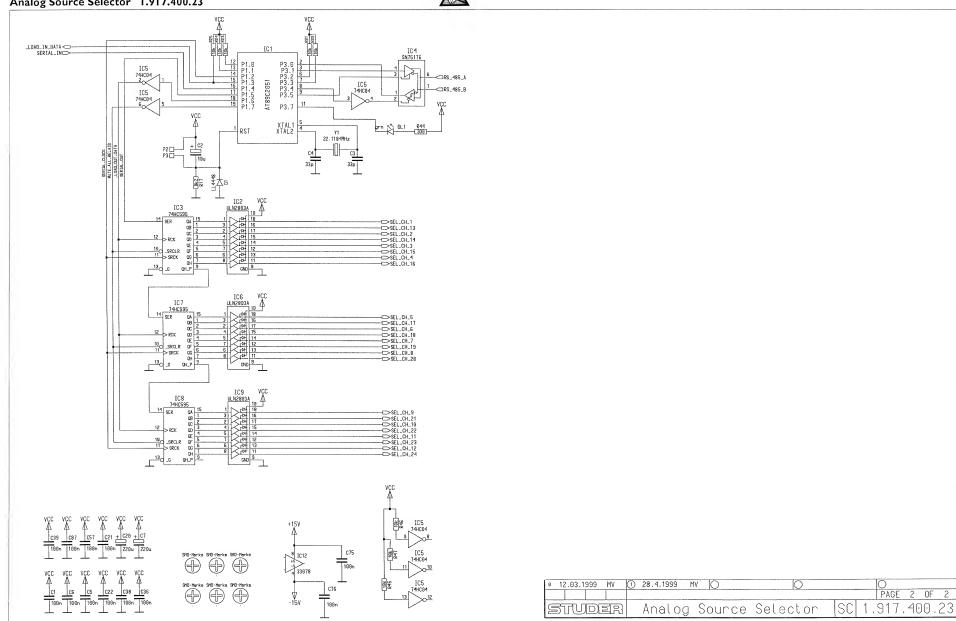
Analog Source Selector 1.917.400.23







Analog Source Selector 1.917.400.23



OF

Analog Source Selector 1.917.400.23 MP7-MP6-ANALOG :0±0:0 2020 2020 2020 2020 C12 C13 C14 C18 C16 C17 CIB CI9 R25 | R21 | R22 | R24 | R23 | R23 | R23 | R23 | R24 | R23 | SOURCE \$[]\$[]\$[] \$ B B B B C23 C24 033 034 (31) (32) SELECTOR C38 🖂 \$[]\$[]\$[] 2 [2 [2] 2 [2] 2 [3] 2 [3] 2 [3] 2 [3] C39 C46 C47 C48 C49 C50 C51 012 013 044 (045) C+0 C+1 C38 🖂 R68 £[]\$[]\$[] 2020 K23 K22 1.917. R59 Ras 400.23 C79 C80 C81 C82 C83 C84 C85 C86 1C13 R97 ① J1 (4x) MP4-19 E . 28.4.1999 . /// /// ①

STUDER

REGENSDORF

Analog Source Selector, ESE

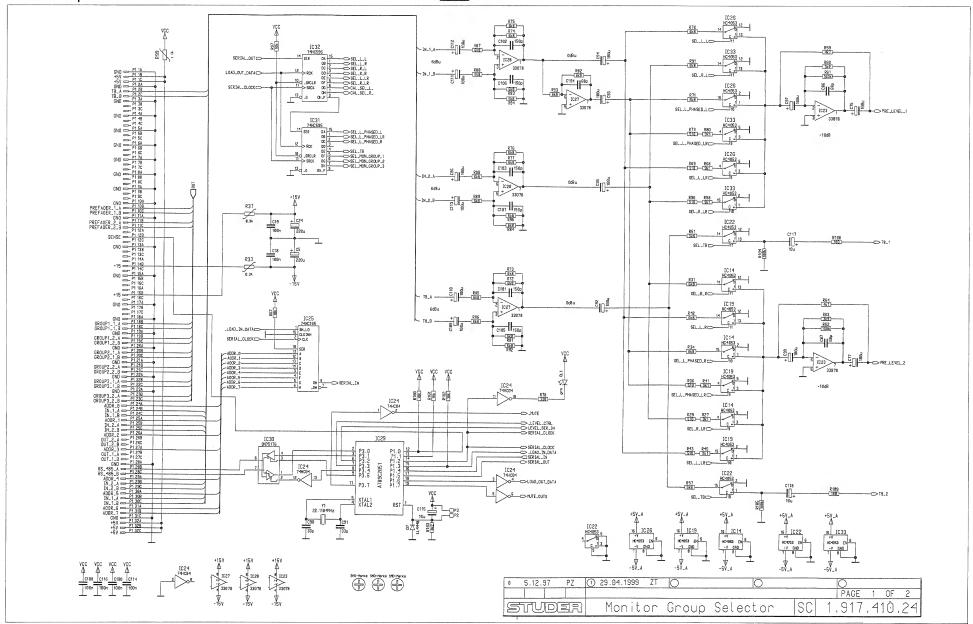
1.917.400.23



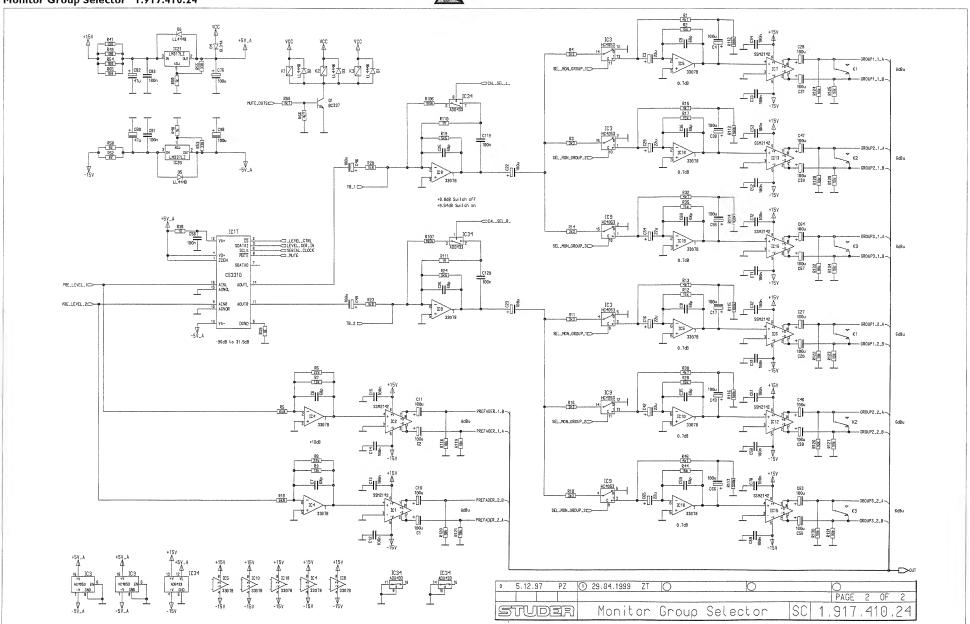
Analog Source Selector 1.917.400.23

ialog 5	ource Select	tor i	.917.400.23												
x Pos.	Part No. Qty.	Type/Val.	Description	ldx Pos.	Part No. Qty.	Type/Val.	Description	ldx Pos.	Part No. Q	ty. Type/Val.	Description	ldx Pos.	Part No. Qty.	Type/Val.	Description
C 1	59.60.3337 59.68.0065	100n 10u	CER 50V, 10%, X7R, 0805 C-EL 16V, 4.0*5.7	0 D1	50,60,8001	4448	200mA 75V 4ns SOD 80	0 R 15	57.60.1682	BK8	MF, 1%, 0204, E24	0 R 103	57.60.1183	18k	MF, 1%, 0204, E24
C2 C3		33p	CER 50V, 5%, COG, 0603	0 DL 1	50.04.2132	TI LIG 2401	DL TLUG 2401 GN MATT	0 R 16 0 R 17	57,92,7051 57,60,1822	1.1A 8K2	POLY-PTC, 30V MF, 1%, 0204, E24	0 R 104 0 R 105	57.60.1392 57.60.1392	3K9 3K9	MF, 1%, 0204, E24
C 4	59.60.2237	33p	CER 50V, 5%, CGG, 0603	0 501	30.04.2132	1200 2401	DE TEOG 2401 GN MATT	0 R 18	57,60,1622	10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 106	57.60.1392 57.60.1103	10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
C 5		100n	CER 50V, 10%, X7R, 0805	0 IC1	1.950.910.22		SW 917400 ATMEL1 (50.16.0313)	0 R 19	57.60.1682	6K8	MF, 1%, 0204, E24	U R 106	57.80.1103	TUK	MF, 1%, 0204, E24
C6	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 10 2	50,15,0119	ULN2803	Octal peripherial Driver, o.c.	0 R 20	57.60,1682	6K8	MF, 1%, 0204, E24	0 XIC 1	53.03.0165	20p	DU 0.01 111
C 7	59.68.0031	220u	C-EL 6V, 8.0*6.3	0 10 2	50.62,1595	74HC595	8bit shift/output register	0 R 21	57.60,1002	10K	MF, 1%, 0204, E24	0 XIC 1	53.03.0165	20p	DIL 0.3", löt, gerade
C8	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 IG4	50.15.0115	75176	IC SN 75176 BP, DS 3695 N,	0 R 22	57.60.1103	10K	MF, 1%, 0204, E24	0 Y1	00.004004	00.440.4041	
0.9	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 10 5	50.62.1004	74HC 04	Hex inverter	0 R23	57.60.1103	10K	MF, 1%, 0204, E24	U Y1	89,60.1004	22.1184MHz	SMD Quartz
C 10	59.68.0029	100u	C-EL 6V 6.3*5.7	0 10 6	50.15.0119	ULN2803	Octal peripherial Driver, o.c.	0 R24	57.60.1103	10K	MF, 1%, 0204, E24				
C 11	59.68.0029	100u	C-EL 8V. 6.3*5.7	0 IC7	50.62,1595	74HC595	8bit shift/output register	0 R 25	57.60.1103	10K	MF. 1%, 0204, E24			End of List	
C 12	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 108	50.62.1595	74HC595	8bit shift/output register	0 R 26	57.60.1103	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24	Comments			
C 12	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 10 9	50.15.0119	ULN2803	Octal peripherial Driver, c.c.	0 R 27	57.60.1103	10K					
C 14	59.68.0029	100u	C-EL 6V 8.3*5.7	0 IC 10	50 09.0124	2142	IC SSM 2142 P				MF, 1%, 0204, E24				
C 14	59.68.0029	100u	C-EL 8V, 6.3*5.7	0 IC 10	50.09.0124	2142	IC SSM 2142 P	0 R 28 0 R 29	57.60.1682 57.60.1682	6K8 6K8	MF, 1%, 0204, E24				
C 16	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 IC 12	50.61.0204	MC33078	Dual Op-Amp low noise		57.60.1682 57.60.1103		MF, 1%, 0204, E24				
	59.68.0029	100u	C-EL 6V, 6.3*57	0 IC 13	50.62.1165	74HC165	8bit shift register	0 R 30		10K	MF, 1%, 0204, E24				
C 17		100u	C-EL 6V, 6.3*5.7	0 10 13	50,02,1100	74HC100	our sint register	0 R31	57,60,1682	6K8	MF, 1%, 0204, E24				
C 18	59.68.0029	100u 100u		0 J1	54.01.0021 4 pcs	1 mm	0.63 * 0.63mm	0 R 32	57.60.1682	8K8	MF, 1%, 0204, E24				
C 19	59.68.0029		C-EL 6V, 6,3*5.7	0 31	54.01.0021 4 pcs	Jumper	0.03 0.03(18))	0 R 33	57.60.1103	10K	MF, 1%, 0204, E24				
C 20	59.68.0031	220u	C-EL 6V, 80*6.3		56 04 0198	2u	D1 10D1 01 1 1	0 R 34	57.60.1682	6K8	MF, 1%, 0204, E24				
C 21	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 K1			5V 125V 2A Ag/Au	0 R 35	57.60.1682	6K8	MF, 1%, 0204, E24				
C 22	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 K2	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 36	57.60.1103	10K	MF, 1%, 0204, E24				
C 23	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K3	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 37	57.60.1682	6K8	MF, 1%, 0204, E24				
C 24	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K4	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 38	57.60.1682	6K8	MF, 1%, 0204, E24				
C 25	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K 5	56,04.0198	2u	5V 125V 2A Ag/Au	0 R 39	57.60.1103	10K	MF, 1%, 0204, E24				
C 26	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K8	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 40	57.60.1682	6K8	MF, 1%, 0204, E24				
C 27	59.68.0029	100u	C-EL 8V, 6.3*5.7	0 K7	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 41	57.60.1682	6KB	MF, 1%, 0204, E.24				
C 28	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K8	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 42	57.60.1103	10K	MF, 1%, 0204, E24				
C 29	59.68.0029	100u	C-EL 6V, 6,3*5.7	0 K9	56,04.0198	2u	5V 125V 2A Ag/Au	0 R 43	57.60.1682	6K8	MF, 1%, 0204, E.24				
C 30	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K 10	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 44	57.60.1331	330R	MF, 1%, 0204, E24				
C 31	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K 11	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 45	57.60.1103	10K	MF, 1%, 0204, E24				
C 32	59,68.0029	100u	C-EL 6V, 6.3*5.7	0 K 12	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 46	57.60.1103	10K	MF, 1%, 0204, E24				
C 33	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K13	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 47	57.60.1103	10K	MF, 1%, 0204, E24				
C 34	59.68.0029	100u	C-EL 6V, 6,3*5.7	0 K 14	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 48	57.60.1682	6K8	MF, 1%, 0204, E:24				
C 35	59,68.0115	100u	C-EL 35V, 8.0*10.7	0 K15	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 49	57,80.1103	10K	MF, 1%, 0204, E24				
C 36	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 K 16	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 50	57.60.1682	6K8	MF, 1%, 0204, E24				
C 37	59.68.0073	220u	C-EL 16V, 8.0*10.7	0 K 17	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 51	57.60.1682	6K8	MF, 1%, 0204, E24				
C 38	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 K18	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 52	57.60.1103	10K	MF, 1%, 0204, E24				
C 39	59.60.3337	100n	GER 50V, 10%, X7R, 0805	0 K 19	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 53	57.60.1682	6K8	MF. 1%, 0204, E24				
C 40	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K 20	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 54	57.60.1682	6K8	MF, 1%, 0204, E24				
C 41	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K 21	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 55	57,60,1103	10K	MF. 1%, 0204, E24				
C 42	59,68,0029	100u	C-EL 6V, 6.3*5.7	0 K 22	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 56	57.60.1682	6K8	MF, 1%, 0204, E24				
C 43	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K 23	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 57	57.60.1682	6K8	MF, 1%, 0204, E24				
C 44	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K24	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 58	57.60.1103	10K	MF, 1%, 0204, E24				
C 45	59.68.0029	100u	C-EL 6V, 8.3*5.7					0 R 59	57.60.1682	6K8	MF, 1%, 0204, E24				
C 46	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 MP1	1.917.400.13 1 pce		ANALOG SOURCE SELECTOR PCB	0 R 60	57.60.1682	6KB	MF. 1%, 0204, E24				
C 47	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 MP 2	1.101.001.20 1 pce	Label	TEXT-ETIK, 5*20 HARDWARE -20	0 R 61	57.60.1103	10K	MF, 1%, 0204, E24				
C 48	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 MP3	43.01.0108 1 pce		ESE-WARNSCHILD	0 R 62	57.60.1682	6K8	MF, 1%, 0204, E24				
C 49	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 MP 4	1.010.096.49 1 pce		KLARSICHTSCHILD	0 R 63	57.60.1682	6K8	MF. 1%, 0204, E24				
C 50	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 MP 5	1.010.006.33 2 pcs	Handle	GRIFFHAELFTE	D R 64	57.60.1002	10K	MF, 1%, 0204, E24				
C 51	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 MP6	28.21.1380 3 pcs	2.25*6.5	Rohrniete Ms blank	0 R 65	57.60.1682	6K8	MF, 1%, 0204, E24				
C 52	59.68.0115	100u	C-EL 35V, 8.0*10.7	0 MP 7	28.99.0119 2 pcs		ROHRNIETE D 2.5*0.15* 9	0 R66	57.92.7011	0.2A	POLY- PTC. 60V				
C 53		220u	C-EL 16V. 8.0*10.7	0 MP8	1.917.400.01 1 pce		BEZ, STREIFEN 6.3x91	0 R 67	57.92.7011	0.2A	POLY- PTC, 60V				
C 54		220u	C-EL 16V, 8.0*10.7					0 R68	57.60.1103	10K	MF, 1%, 0204, E24				
C 55	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P1	54.11.2009	96p	EU-R 3*32p	0 R 69	57.60.1103	10K	MF, 1%, 0204, E24				
C 56	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P2	54.01.0020	1p	Pin 0.63*0.63	0 R 70	57,60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
C 57	59.60,3337	100n	CER 50V, 10%, X7R, 0805	0 P3	54.01.0020	1p	Pin 0,63*0,63	0 R70	57,60.1682 57,60.1103	10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
C 58	59.68 0029	100u	C-EL 6V, 6.3*5.7	0 P4	54.01.0020	1p	Pin 0.63*0.63	0 R72	57.60.1103 57.60.1682	1UK 6K8					
C 58 C 59	59.68 0029 59.68.0029	100u	C-EL 6V, 6.3°5.7 C-EL 6V. 6.3°5.7	0 P5	54.01.0020	1p	Pin 0.63*0.63				MF, 1%, 0204, E24				
	59.68.0029	100u	C-EL 6V, 6.3°5.7	0 P6	54.01.0020	1p	Pin 0.63*0.63	0 R 73	57.60.1682	6K8	MF, 1%, 0204, E24				
C 60				0 P7	54.01.0020	1p	Pin 0.63*0.63	0 R74	57.60.1103	10K	MF, 1%, 0204, E24				
C 61	59.68.0029	100u 100u	C-EL 6V, 6.3*5.7	0 P8	54.01.0020	1p	Pin 0.63*0.63	0 R 75	57.60.1682	6K8	MF, 1%, 0204, E24				
C 62	59.68.0029 59.68.0029	100u 100u	C-EL 6V, 6.3*5.7 C-EL 6V, 6.3*6.7	0 P9	54.01.0020	1p	Pin 0.63*0.63	0 R 76	57.60.1682	6K8	MF, 1%, 0204, E24				
C 63				0 P10	54.01.0020	1p	Pin 0.63*0.63	0 R 77	57,60.1103	10K	MF, 1%, 0204, E24				
C 64	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 P 11	54.01.0020	1p	Pin 0.63*0.63	0 R 78	57.60.1682	6K8	MF, 1%, 0204, E24				
C 65	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 P 12	54 01.0020	1p	Pin 0.63*0.63	0 R 79	57.60.1682	6K8	MF, 1%, 0204, E24				
C 66	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 P 13	54.01.0020	1p	Pin 0.63*0.63	0 R 80	57.60.1103	10K	MF, 1%, 0204, E24				
C 67	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 P 14	54.01.0020	1p	Pin 0.63*0.63	0 R 81	57.60.1682	6KB	MF, 1%, 0204, E24				
C 68	59.68.0029	100u	C-EL 6V, 63*5.7	0 P15	54.01.0020	1p	Pin 0.63*0.63	0 R 82	57.60.1682	6K8	MF, 1%, 0204, E24				
C 69	59,68.0029	100u	C-EL 6V, 6.3*5.7	0 P 16	54 01.0020	1p	Pin 0.63*0 63	0 R 83	57,60,1103	10K	MF, 1%, 0204, E24				
C 70	59.68.0073	220u	C-EL 16V, 8.0*10.7	0 P 17	54.01.0020	1p	Pin 0.63*0.63	0 R 84	57.60.1682	6K8	MF, 1%, 0/204, E24				
C 71	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P 18	54.01.0020	1p	Pin 0.63*0.63	0 R 85	57.60.1682	6K8	MF, 1%, 0204, E24				
C 72	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P 19	54.01.0020	1p	Pin 0.63*0.63	0 R 86	57.60.1103	10K	MF, 1%, 0204, E24				
C 73	59.60.2253	150p	CER 50V, 5%, C0G, 0603					0 R87	57,60 1682	6K8	MF, 1%, 0204, E24				
C 74	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 R1	57.60.1682	6K8	MF, 1%, 0204, E24	0 R88	57.60.1103	10K	MF, 1%, 0204, E24				
C 75	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 R2	57,60,1103	10K	MF, 1%, 0204, E24	0 R 89	57.60.1104	100K	MF, 1%, 0204, E24				
C 76	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 R3	57.60.1682	6K8	MF, 1%, 0204, E24	0 R90	57.60.1104	100K	MF, 1%, 0204, E24				
C 77	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 R4	57,60,1682	6K8	MF. 1%, 0204, E24	0 R 91	57.60.1104	100K	MF, 1%, 0204, E24				
C 78	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 R5	57.60.1682	6KB	MF, 1%, 0204, E24	0 R 92	57,60,1104	100K	MF, 1%, 0204, E24				
C 79	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 R6	57.60.1682	6KB	MF. 1%, 0204, E24	0 R 93	57.60.1682	6K8	MF, 1%, 0204, E24				
C 80	59,68.0029	100u	C-EL 6V, 6.3*5.7	0 R7	57.60.1103	10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 94	57.60.1682	6K8	MF, 1%, 0204, E24				
C 81	59,68.0029	100u	C-FL 6V, 6.3*5.7	0 R8	57.60.1103	10K 6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R95	57.60.1682	6K8	MF, 1%, 0204, E24				
C 82	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 R8	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 96	57.60.1682	6K8	MF. 1%, 0204, E24				
C 83	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 R9	57.60.1682 57.60.1103	6K8 10K		0 R 97	57.60.1103	10K	MF, 1%, 0204, E24				
C 84	59.68.0029	100u	C-EL 6V. 6.3*5.7				MF, 1%, 0204, E24	0 R98	57.60.1392	3K9	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
C 85	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 R11	57.60 1682	6K8	MF, 1%, 0204, E24	0 R 99	57.60,1392	3K9	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
C 86	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 R 12	57.60.1103	10K	MF, 1%, 0204, E24	C R 100	57.60,1382	18k	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
C 87	59,60,3337	100n	CER 50V, 10%, X7R, 0805	0 R 13	57.60.1682	6K8	MF, 1%, 0204, E24	0 R 101	57.60.1183	18k	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
001	38,00.3331	19011	OZ.1, 304, 1076, 7411, 0008	0 R 14	57.60.1103	10K	MF, 1%, 0204, E24	0 R 101	57.60,1183	18k					
								U R 102	07.00.1103	18K	MF, 1%, 0204, E24				

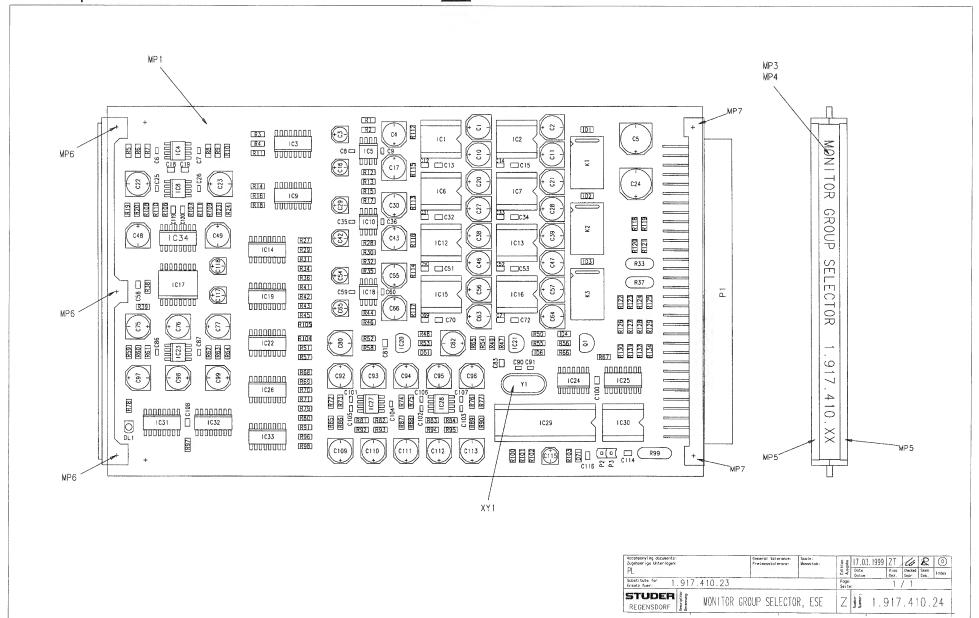










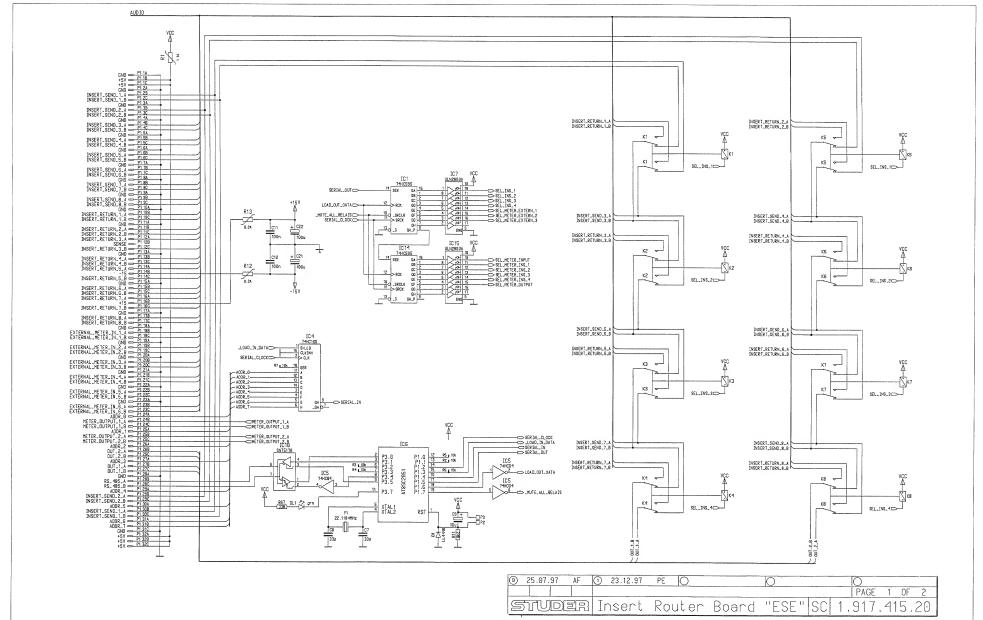




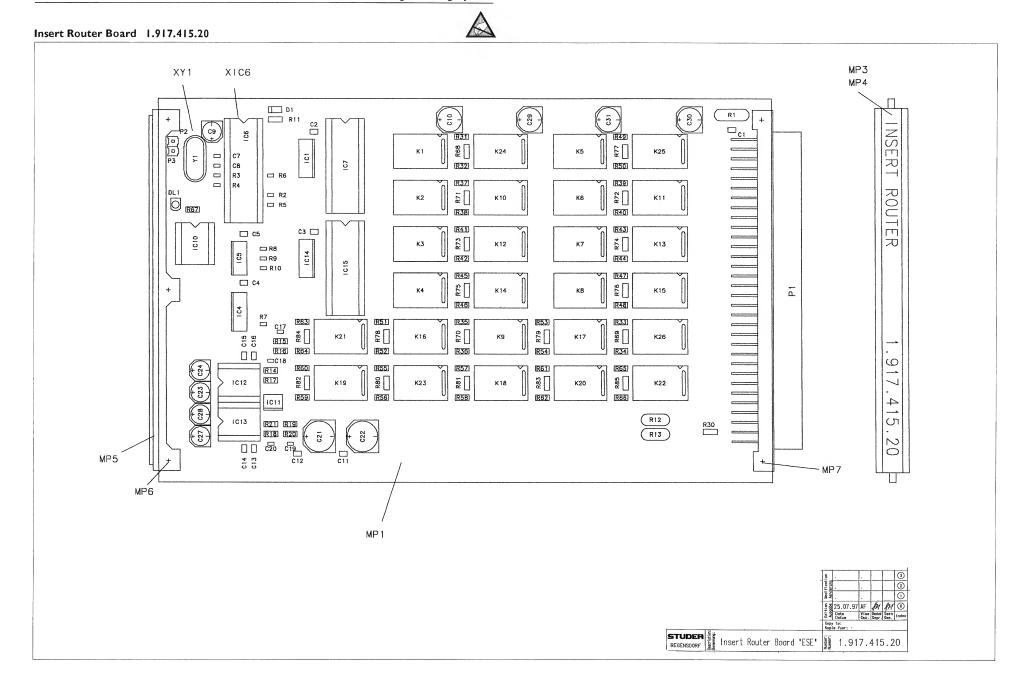
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Pos.		Type/Val.	Description	ldx Pos.	Part No. Qt		Description	ldx Pos.	Part No. Qty.	Type/Val.	Description	ldx Pos.	Part No. Qty.		Description
0 1 0 2	59.68.0029 59.68.0029	100u 100u	C-EL 6V, 6.3*5.7 C-EL 6V, 6.3*5.7	0 C 104	59.60.2245	68p	CER 50V, 5%, COG, 0603	0 R5	57.60,1682	6K8	MF, 1%, 0204, E24	0 R 96	57.60.1511	510R	MF, 1%, 0204, E24
32	59.68.0025	22u	C-EL 6V, 4.0*5.7	0 C 105 0 C 106	59.60.2253	150p	CER 50V, 5%, COG, 0603	0 R6	57.60.1223	22K	MF, 1%, 0204, E24	0 R 97	57.60.1103	10K	MF, 1%, 0204, E24
4	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 C 106	59.60.2253 59.60.2253	150p 150p	CER 50V, 5%, COG, 0603	0 R7	not used	13K 22K	MF, 1%, 0204, E24	0 R98 0 R99	57.60.1912	9K1	MF, 1%, 0204, E24
5		220u	C-EL 16V. 8.0*10.7	0 C107	59.60.2253 59.60.3337	100p	CER 50V, 5%, C0G, 0603 CER 50V, 10%, X7R, 0805	0 R8 0 R9	57.60.1223 not used	13K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 99	57.92.7051 57.60.1103	1.1A 10K	POLY- PTC, 30V MF, 1%, 0204, E24
6	59.60.2245	68p	CER 50V, 5%, COG, 0603	0 C 100	59.68.0029	100H	C-EL 6V. 6.3*5.7	0 R10	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 101	57.60.1103	10K	MF, 1%, 0204, E24
7	59.60,2245	68p	CER 50V, 5%, COG, 0603	0 C 110	59.68.0029	100u	C-EL 6V 63*57	0 R 11	57 60 1332	3K3	MF, 1%, 0204, E24	0 R 102	57.60.1103	10K	MF, 1%, 0204, E24
8	59.60.2245	68p	CER 50V, 5%, COG, 0603	0 C 111	59.68,0029	100u	C-EL 6V, 6.3*5.7	1 R 12	57.60.1153	15K	MF, 1%, 0204, E24	0 R 103	57.60.1822	8K2	MF, 1%, 0204, E24
9	59.60.2245	68p	CER 50V, 5%, COG, 0603	0 C 112	59.68.0029	100u	C-EL 6V, 6.3*5.7	1 R 13	57.60.1472	4K7	MF, 1%, 0204, E24	0 R 104	57.60.1104	100K	MF. 1%, 0204, E24
10	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 C 113	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 R 14	57.60.1332	3K3	MF, 1%, 0204, E24	0 R 105	57.60.1104	100K	MF, 1%, 0204, E24
11	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 C 114	59.60.3337	100n	CER 50V, 10%, X7R, 0805	1 R 15	57.60.1472	4K7	MF, 1%, 0204, E24	0 R 106	57.60.1184	180K	MF, 1%, 0204, E24
12	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 115	59.68.0065	10u	C-EL 16V, 4.0*5,7	0 R 16	57.60.1332	3K3	MF, 1%, 0204, E24	0 R 107	57.60.1184	180K	MF, 1%, 0204, E24
13	59,60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 116	59.60.3337	100n	CER 50V, 10%, X7R, 0805	1 R 17	57.60.1153	15K	MF, 1%, 0204, E24	0 R 108	57.60.1181	180R	MF, 1%, 0204, E24
14	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 117	59.68.0065	10u	C-EL 16V, 4.0*5.7	0 R 18	57.60.1332	3K3	MF, 1%, 0204, E24	0 R 109	57.60.1181	180R	MF, 1%, 0204, E24
15	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 118	59.68.0065	10u	C-EL 16V, 4.0*5.7	1 R 19	57.60.1562	5K6	MF, 1%, 0204, E24	1 R 110	57.60,1105	1M	MF, 1%, 0204, E24
16	59.68.0025	22u 100u	C-EL 6V, 4.0*5.7 C-EL 6V, 6.3*5.7	0 C 119	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 R 20	57.60.1182	1K8	MF, 1%, 0204, E24	1 R 111	57.80.1105	1M	MF, 1%, 0204, E24
17 18	59.68.0029 59.60.3337	1000 100n	CER 50V, 10%, X7R, 0805	0 C 120	59,60,3337	100n	CER 50V, 10%, X7R, 0805	0 R 23	57.60.1182	1K8 5K6	MF, 1%, 0204, E24	0 R 112	57.60.1104	100K	MF, 1%, 0204, E24
18	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 D1	50.60.8001	4448	200mA 75V 4ns SOD 80	1 R 24 0 R 27	57.60.1562 57.60.1912	9K1	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 113 0 R 114	57.60.1104	100K 100K	MF, 1%, 0204, E24
20	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 D2	50.60.8001	4448	200mA 75V 4ns SOD 80	1 R 28	57.60.1912	15K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R114	57.60.1104 57.60.1104	100K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
21	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 D3	50.60.8001	4448	200mA 75V 4ns SOD 80	0 R 29	57.60.1511	510R	MF, 1%, 0204, E24 MF, 1%, 0204, E24	U K 115 O R 116	57.60.1104 57.60.1 1 04	100K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
22	59.68.0029	100u	C-EL 6V. 6.3*5.7	2 D4	not used	GL34A	500mA 50V DO 213	1 R 30	57.60.1472	4K7	MF. 1%, 0204, E24	0 R 117	57.60.1104	100K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
23	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 D5	50.60.8001	4448	200mA 75V 4ns SOD 80	0 R 31	57.60.1682	6K8	MF, 1%, 0204, E24	0 R 118	57.60.1104	100K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
24	59.68.0073	220u	C-EL 16V, 8.0*10.7	0 D6	50.60.8001	4448	200mA 75V 4ns SOD 80	1 R32	57.60.1472	4K7	MF. 1%, 0204, E24	0 R 119	57.60.1103	10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
25	59.60.2245	68p	CER 50V, 5%, C0G, 0603	0 D7	50.60.8001	4448	200mA 75V 4ns SOD 80	0 R 33	57.92.7012	0.3A	POLY- PTC. 60V	0 R 120	57,60,1103	10K	MF, 1%, 0204, E24
26	59.60.2245	68p	CER 50V, 5%, COG, 0603	0 07	55,00,0001	-1440	20011A 137 418 30D 00	0 R 34	57.60.1682	6K8	MF, 1%, 0204, E24	0 R 121	57.60.1103	10K	MF, 1%, 0204, E24
27	59.68.0029	100u	C-EL 6V, 6,3*5.7	0 DL1	50.04.2132	TLUG 240	I DL TLUG 2401 GN MATT	1 R 35	57.60.1153	15K	MF, 1%, 0204, E24	0 R 122	57.60.1103	10K	MF, 1%, 0204, E24
28	59.68.0029	100u	C-EL 6V, 6.3*5.7					0 R 36	57.60.1511	510R	MF, 1%, 0204, E24	0 R 123	57.60.1103	10K	MF, 1%, 0204, E24
29	59.68.0025	22u	C-EL 6V, 4.0*5.7	0 IC 1	50.09.0124	2142	Audio balanced line driver	0 R 37	57.92.7012	0.3A	POLY- PTC, 60V	0 R 124	57.60.1103	10K	MF, 1%, 0204, E24
30	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 IC 2	50.09.0124	2142	Audio balanced line driver	0 R 38	57.60.1100	10R	MF, 1%, 0204, E24	0 R 125	57.60.1103	10K	MF, 1%, 0204, E24
31	59 60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 3	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R 39	57.60.1000	0R0	MF, 0204	0 R 126	57.60.1103	10K	MF, 1%, 0204, E24
32	59,60,3337	100n	CER 50V, 10%, X7R, 0805	0 IC 4	50.61.0204	MC33078	Dual Op-Amp low noise	0 R41	57.60.1912	9K1	MF, 1%, 0204, E24	0 R 127	57.60.1103	10K	MF, 1%, 0204, E24
33	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 5	50.81.0204	MC33078	Dual Op-Amp low noise	0 R 42	57.60.1682	6K8	MF, 1%, 0204, E24	0 R 128	57.60.1103	10K	MF, 1%, 0204, E24
34	59,60,3337	100n	CER 50V, 10%, X7R, 0805	0 IC 6	50.09.0124	2142	Audio balanced line driver	0 R 43	57.60.1511	510R	MF, 1%, 0204, E24	0 R 129	57.60.1103	10K	MF, 1%, 0204, E24
35	59.60.2245	68p	CER 50V, 5%, COG, 0603	0 IC 7	50,09,0124	2142	Audio balanced line driver	1 R 44	67.60.1153	15K	MF, 1%, 0204, E24	0 R 130	57.60.1103	10K	MF, 1%, 0204, E24
36	59.60.2245	68p 100u	CER 50V, 5%, C0G, 0603 C-EL 6V, 6.3*5.7	0 IC8	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 45	57.60.1912	9K1	MF, 1%, 0204, E24	0 R 131	57.60.1103	10K	MF, 1%, 0204, E24
38 39	59.68.0029 59.68.0029	100u	C-EL 6V, 6.3*5.7 C-EL 6V, 6.3*5.7	0 IC 9	50.62.8053	HC4053	Tripple 2ch analog mux/demux	1 R 46 0 R 47	57.60.1472	4K7 100R	MF, 1%, 0204, E24	0 R 132	57.60.1103	10K	MF, 1%, 0204, E24
19	59,68,0029	22u	C-EL 6V, 6.35.7 C-EL 6V, 4.0*5.7	0 IC 10	50.61.0204	MC33078	Dual Op-Amp low noise	0 R47	57.60.1101 57.60.1102	100K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 134	57.60.1103	10K	MF, 1%, 0204, E24
13	59.68.0029	100u	C-EL 6V. 8.3*5.7	0 IC 12 0 IC 13	50.09.0124 50.09.0124	2142 2142	Audio balanced line driver Audio balanced line driver	0 R49	57.60.1102	100R	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 XIC 1	53.03.0166	8p	B11 A 41 111
46	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 IC 13	50.09.0124	2142 HC4053	Tripple 2ch analog mux/demux	0 R 50	57.60.1102	1K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 XIC 1	53.03.0166		DIL 0.3", löt, gerade
47	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 IC 15	50.02.8003	2142	Audio balanced line driver	0 R 51	57.60.1562	5K6	MF. 1%, 0204, E24	0 XIC2	53,03,0166	8p 8p	Dil. 0.3", löt, gerade Dil. 0.3", löt, gerade
48	59.68.0029	100u	C-EL 6V. 6.3*5.7	0 IC 16	50.09.0124	2142	Audio balanced line driver	0 R52	57.60.1820	82R	MF. 1% 0204, E24	0 XIC 7	53.03.0166	8p	DIL 0.3", lot, gerade
49	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 IC 17	50.61.8301	CS3310	Dig volume control ste SO16	0 R 53	57,60,1331	330R	MF, 1%, 0204, E24	0 XIC 12	53.03.0166	8p	DIL 0.3", löt, gerade
50	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC18	50.61.0204	MG33078	Dual Op-Amp low noise	0 R 54	57.60.1101	100R	MF, 1%, 0204, E24	0 XIC 13	53.03.0166	8p	DIL 0.3", löt, gerade
51	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 19	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R 55	57.60.1331	330R	MF. 1% 0204 E24	0 XIC 15	53.03.0166	8p	DIL 0.3", löt, gerade
52	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 20	50.10.0109	LM337L	IC LM 337 LZ	0 R 56	57.60.1472	4K7	MF, 1%, 0204, E24	0 XIC 16	53.03.0166	8p	DIL 0.3", löt, gerade
53	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 21	50.10.0108	LM317L	IC LM 317 LZ.	0 R 57	57.60.1562	5K6	MF, 1%, 0204, E24	0 XIC 29	53.03.0165	20p	DIL 0.3", löt, gerade
54	59.68.0025	22u	C-EL 6V, 4.0*5.7	0 IC 22	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R 58	57.60.1820	82R	MF, 1%, 0204, E24	0 XIC 30	53.03.0166	8p	DIL 0.3", löt, gerade
55	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 IC 23	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 59	57.60.1472	4K7	MF, 1%, 0204, E24				
56	59,68.0029	100u	C-EL 6V, 6.3*5.7	0 IC 24	50.62,1004	74HC 04	Hex inverter	0 R 60	57.60.1392	3K9	MF, 1%, 0204, E24	0 XY 1	89.01.1499		QUARZ - ISOLIERPLATT
57	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 IC 25	50.62,1165	74HC165	8bit shift register	0 R 61	57.60.1104	100K	MF, 1%, 0204, E24				
58	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 26	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R 62	57.60.1104	100K	MF, 1%, 0204, E24	0 Y 1	89.01.1016	22.1184MHz	22.118 400 MHz, HC 49/
59	59.60.2245	68p 68p	CER 50V, 5%, COG, 0603 CER 50V 5% COG, 0603	0 IC 27	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 63	57.60.1392	3K9	MF, 1%, 0204, E24				
30	59.60.2245	68p 100u	CER 50V, 5%, C0G, 0803 C-EL 6V, 6.3*5.7	0 IC 28	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 64	57.60.1472	4K7	MF, 1%, 0204, E24			End of List	
33 34	59.68.0029 59.68.0029	100u 100u	C-EL 6V, 6.3*5.7 C-EL 6V, 6.3*5.7	0 IC 29	1.950.911.23		SW 917410 ATMEL2 (50.16.0313)	0 R65 0 R66	57.60.1101	100R 4K7	MF, 1%, 0204, E24	Comments:			
54 55	59.68.0029 59.68.0025	22u	C-EL 6V, 6.3*5.7	0 IC 30	50.15.0115	75176	IC SN 75176 BP, DS 3695 N,	0 R 56	57.60.1472 57.60.1103	4K7 10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24		has changed to 1M		
36	59.68.0029	100u	C-EL 8V, 4.0 5.7	0 IC 31 0 IC 32	50.62.1595 50.62.1595	74HC595 74HC595	8bit shift/output register	0 R68	57.60.1912	9K1	MF, 1%, 0204, E24 MF, 1%, 0204, E24	R19,R24 ha	is changed to 5k6		
39	59.66.0029	100u	CER 50V, 10%, X7R, 0806	0 IC 32 0 IC 33	50.62.1595 50.62.8053	74HC595 HC4053	8bit shift/output register Tripple 2ch analog mux/demux	0 R 69	57.60.1511	510R	MF, 1%, 0204, E24 MF, 1%, 0204, E24	R1,R13,R15	5.R30.R32.R46 has chan-	ged to 4k7	
70	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 34	50.61.8202	ADG433	Quad SPST SO 16	0 R 70	57.60.1682	6K8	MF. 1%, 0204, E24	R2,R12,R17	7,R28,R35,R44 has chang	ged to 15k	
71	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 10 34	00.01.0202	ALV3433	4000 OF 01 00 10	0 R71	57.60.1682	6K8	MF, 1%, 0204, E24	C3,C16,C29 (02) D4 not used	C42,C54,C65 has chan	ged to 22uF	
72	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 K1	56.04.0198	2u	5V 125V 2A Aq/Au	0 R72	57.60.1682	6K8	MF, 1%, 0204, E24	MP9 Revisio	ı on-label "A"->"B"		
75	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K2	56.04.0198	2u	5V 125V 2A Ag/Au 5V 125V 2A Ag/Au	0 R 73	57.60.1682	6K8	MF, 1%, 0204, E24	III O I LEVISIC			
76	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 K3	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 74	57.60.1682	6K8	MF, 1%, 0204, E24				
77	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 MP1	1,917,410.13 1 pce		MONITOR GROUP SELECTOR PCB	0 R 75	57.60.1682	6K8	MF, 1%, 0234, E24				
30	59.68.0069	47 u	C-EL 16V, 6.3*5.7			Laba'	MONITOR GROUP SELECTOR PCB FSE-WARNSCHILD	0 R 76	57.60.1682	6K8	MF, 1%, 0234, E24				
31	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP2	43.01.0108 1 pce	Label		0 R 77	57.60.1682	6K8	MF, 1%, 0204, E24				
32	59.68.0069	47u	C-EL 16V, 6.3*5.7	0 MP3	1.917.400.01 1 pce		BEZ. STREIFEN 6.3x91	0 R 78	57.60.1331	330R	MF, 1%, 0204, E24				
33	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP 4	1.010,096.49 1 pce	-	KLARSICHTSCHILD	0 R 79	57.60.1511	510R	MF, 1%, 0204, E24				
86	59.60.2245	68p	CER 50V, 5%, COG, 0603	0 MP 5	1.010.006.33 2 pcs	Handle	GRIFFHAELFTE	0 R 80	57,60,1912	9K1	MF, 1%, 0204, E24				
87	59.60.2245	68p	CER 50V, 5%, COG, 0603	0 MP 6	28.21.1380 3 pcs	2.2*6.5	Rohmiete Ms blank	0 R 81	57.60.1682	6K8	MF, 1%, 0204, E24				
90	59.60.2237	33p 33p	CER 50V, 5%, CDG, 0603 CER 50V, 5%, CDG, 0603	0 MP 7	28.99.0119 2 pcs		ROHRNIETE D 2.5*0.15* 9	0 R 82	57.60.1682	6K8	MF, 1%, 0204, E24				
91	59.60.2237			0 MP 8	1.101.001.24 1 pce		TEXT-ETIK. 5*20 HARDWARE -24	0 R83	57.60 1682	6K8	MF, 1%, 0204, E24				
92	59.68,0029	100u 100u	C-EL 6V, 6.3*5.7 C-EL 6V, 6.3*5.7	2 MP 9	43.10.0111	В	Revisions-Etikette 5mm h*blau	0 R 84 0 R 85	57.80.1682 57.60.1682	6K8 6K8	MF, 1%, 0204, E24				
93	59,68,0029	100u 100u	C-EL 6V, 6.3*5.7 C-EL 6V, 6.3*5.7					0 R85	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24				
94	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 P1	54.11.2009	96p	EU-R 3*32p	0 R85	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24				
95 96	59.68.0029 59.68.0029	100u	C-EL 6V, 6.3*5.7	0 P2	not used	1p	Pin 0.63*0.63	0 R88	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
96 97	59.68.0029	100u	C-EL 6V, 6.3*5.7	0 P3	not used	1p	Pin 0.63*0.63	0 R89	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
97	59.68.0029 59.68.0029	100u	C-EL 6V, 6.3*5.7		50.00.007	00007.00	000-4 45V MPM	0 R 90	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
98	59.68.0029 59.68.0029	100u	C-EL 6V 6.3*5.7	0 Q1	50.03.0340	BC337-25	800mA, 45V, NPN	0 R91	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
100	59.68.0029	1000 100n	CER 50V, 10%, X7R, 0805	1 R1	57 60 1472	4K7	MF. 1% 0204 E24	0 R92	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
100	59.60.2253	150p	CER 50V, 10%, X7R, 0503		57.60.1472 57.60.1153	4K7 15K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R93	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
	59.60.2253	150p	CER 50V, 5%, COG, 0803	1 R2 0 R3	57,60,1153 57,60,1332	15K 3K3		0 R 94	57.60.1662	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, F24				
102							MF, 1%, 0204, E24		57.60.1682	6K8	MF, 1%, 0204, E24				
102	59.60.2253	150p	CER 50V. 5%, COG, 0603	0 R4	57,60,1332	3K3	MF. 1%, 0204, E24	0 R 95							

Insert Router Board 1.917.415.20





Insert Router Board 1.917.415.20 INSERT_SEND_1_B INSERT_SENO_1 SEL_HETER_INPUT INSERT_SENO_2_ SEL_METER_INPUT EXTERNAL_METER_IN_1_ INSERT_RETURN_1 INSERT_RETURN_1. SEL_HETER_EXTERN_1 SEL_METER_INS_1 EXTERNAL_METER_IN_2_B INSERT_RETURN_2_8 EXTERNAL_METER_IN_2_ SEL_METER_EXTERN_1 INSERT_RETURN_3_B EXTERNAL_METER_IN_3_A INSERT_RETURN_3_ SEL_METER_EXTERN_2 SEL_METER_INS_2 EXTERNAL_METER_IN_4_ INSERT_RETURN_4_ INSERT_RETURN_4_A SEL_METER_EXTERN_2 INSERT_RETURN_S_E SELLMETER_INS_3 EXTERNAL_METER_IN_S_A INSERT_RETURN_5_ SEL_METER_EXTERN_3 EXTERNAL_METER_IN_6_B INSERT_RETURN_6_A SEL_METER_EXTERN_3 METER_OUTPUT_2_A < INSERT_RETURN_7_6 METER_OUTPUT_2_B <>-INSERT_RETURN_7_ SEL_METER_INS_4 INSERT_RETURN_8_B INSERT_RETURN_8_ OUT_1_ METER_OUTPUT_1_8 < OUT_2_8 0 25.07.97 AF (1) 23.12.97 SYO-Herke SYO-Herke SYO-Herke PAGE 2 OF |STUDER|Insert Router Board "ESE"|SC|



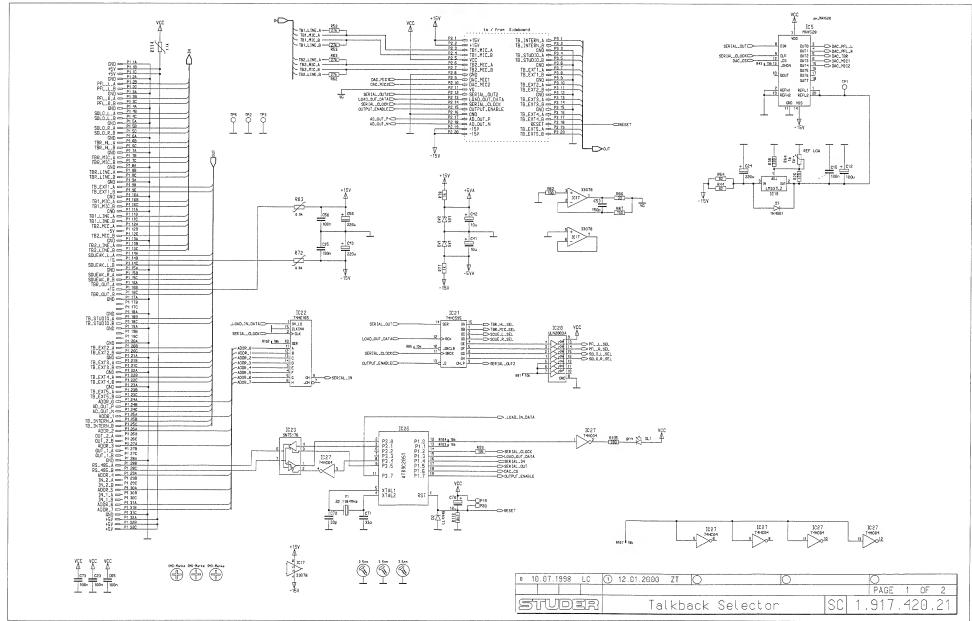


Insert Router Board 1.917.415.22

х. Р	os.	Part No. Qty.	Type/Val.	Description	ldx.	Pos.	Part No. Qty.	Type/Val.	Description
) C	1	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	R 1	57.92.7051	1.1A	POLY- PTC, 30V
	2	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	R2	57.69.1097	10k	Chip 0603, 5%, carbon
	3	59.60.3337	100n	CER 50V, 10%, X7R, 0805	ō	R3	57,69,1097	10k	Chip 0603, 5%, carbon
	3	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	R4	57,69,1097	10k	Chip 0603, 5%, carbon
		59.60.3337	100n		0	R5	57.69.1097	10k	Chip 0603, 5%, carbon
	5 5			CER 50V, 10%, X7R, 0805					
	7	59.60.2237	33p	CER 50V, 5%, C0G, 0603	0	R6	57.69.1097	10k	Chip 0603, 5%, carbon
	8 3	59.60.2237	33p	CER 50V, 5%, C0G, 0603	0	R7	57.69.1097	10k	Chip 0603, 5%, carbon
- 0	9	59.68.0109	10u	C-EL 35V, 5.0*5.7	0	R 8	57.69.1097	10k	Chip 0603, 5%, carbon
	10	59.68.0029	100u	C-EL 6V, 8.3*5.7	0	R 9	57.69.1097	10k	Chip 0603, 5%, carbon
C	3 11	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	R 10	57.69.1097	10k	Chip 0603, 5%, carbon
	12	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	R 11	57.60.1822	8K2	MF, 1%, 0204, E24
	3 13	59.60.3337	100n	CER 50V, 10%, X7R, 0805	ō	R 12	57.92.7011	0.2A	POLY- PTC, 60V
		59.60.3337	100n		0	R 13	57,92,7011	0.2A	POLY- PTC, 60V
	C 14			CER 50V, 10%, X7R, 0805	1	R 14	57.60.1392	3K9	
	15	59.60.3337	100n	CER 50V, 10%, X7R, 0805					MF, 1%, 0204, E24
C	16	59,60.3337	100n	CER 50V, 10%, X7R, 0805	1	R 15	57.60.1183	18K	MF, 1%, 0204, E24
- 0	C 17	59.60.2253	150p	CER 50V, 5%, C0G, 0803	1	R 16	57.60.1392	3K9	MF, 1%, 0204, E24
	18	59.60.2253	150p	CER 50V, 5%, C0G, 0603	1	R 17	57.60.1183	18K	MF, 1%, 0204, E24
	3 19	59.60.2253	150p	CER 50V, 5%, C0G, 0603	1	R 18	57.60.1392	3K9	MF, 1%, 0204, E24
Ċ	20	59.60.2253	150p	CER 50V, 5%, C0G, 0603	1	R 19	57.60.1183	18K	MF, 1%, 0204, E24
	21	59.68.0115	100u	C-EL 35V, 8,0*10.7	1	R 20	57.60.1392	3K9	MF, 1%, 0204, E24
		59.68.0115	100u	C-EL 35V, 8.0*10.7	- 1	R 21	57,60,1183	18K	MF, 1%, 0204, E24
	22					R 30	57.60.1000	0R0	MF. 0204
	C 23	59.88.0109	10u	C-EL 35V, 5.0*5.7	0				
	C 24	59.68.0109	10u	C-EL 35V, 5.0*5.7	0	R 31	57.60.1682	6K8	MF, 1%, 0204, E24
(27	59.68.0109	10u	C-EL 35V, 5.0*5.7	0	R 32	57.60.1682	6K8	MF, 1%, 0204, E24
) (28	59.68.0109	10u	C-EL 35V, 5.0*5.7	0	R 33	57.60.1682	6K8	MF, 1%, 0204, E24
	0 29	59,68.0029	100u	C-EL 6V, 6.3*5.7	0	R 34	57.60.1682	6K8	MF, 1%, 0204, E24
	C 30	59.68.0029	100u	C-EL 6V, 6.3*5.7	0	R 35	57.60.1682	6K8	MF, 1%, 0204, E24
	331	59.68.0029	100u	C-EL 6V, 6.3*5.7	o	R 36	57.60.1682	6K8	MF, 1%, 0204, E24
, (00.00.0020	.000	01, 0.0 0.1	0	R 37	57.60.1682	6K8	MF, 1%, 0204, E24
				D 11 1110 000 00				6K8	
0	D 1	50.60.8001	4448	D LL 4448 SOD 80	0	R 38	57.60.1682		MF, 1%, 0204, E24
					0	R 39	57.60.1682	6K8	MF, 1%, 0204, E24
) E	DL 1	50.04.2132	TLUG 2401	DL TLUG 2401 GN MATT	0	R 40	57.60.1682	6K8	MF, 1%, 0204, E24
					0	R 41	57.60.1682	6K8	MF, 1%, 0204, E24
1	IC 1	50.62,1595	74HC595	74 HC 595	0	R 42	57.60.1682	6K8	MF, 1%, 0204, E24
	IC 4	50.62 1165	74HC165	74 HC 165	0	R 43	57.60.1682	6K8	MF. 1%, 0204, E24
	IC 5	50.62.1004	74HC 04	74 HC 04	0	R 44	57.60.1682	6K8	MF. 1%, 0204, E24
			89C2051	MicroController 24MHz	ő	R 45	57.60.1682	6K8	MF. 1%, 0204, E24
) [IC 6	50.16.0313	89G2U51						
				1.950.912.20 SW 917415 ATMEL3	0	R 46	57.60.1682	6K8	MF, 1%, 0204, E24
)	IC 7	50.15.0119	ULN2803	Octal peripherial Driver, o.c.	0	R 47	57.60.1682	6K8	MF, 1%, 0204, E24
	IC 10	50.15.0115	75176	IC SN 75176 BP, DS 3695 N,	0	R 48	57.60.1682	6K8	MF, 1%, 0204, E24
)	IC 11	50.61.0204	MC33078	IC MC 33078 P	0	R 49	57.60.1682	6K8	MF, 1%, 0204, E24
	IC 12	50.09.0124	2142	IC SSM 2142 P	0	R 50	57.60.1682	6K8	MF, 1%, 0204, E24
	IC 13	50.09.0124	2142	IC SSM 2142 P	ō	R 51	57.60.1682	6K8	MF, 1%, 0204, E24
	IC 13 IC 14	50.09.0124	74HC595	74 HC 595	0	R 52	57.60.1682	6K8	MF, 1%, 0204, E24
					0	R 53	57.60.1682	6K8	MF, 1%, 0204, E24
) [IC 15	50.15.0119	ULN2803	Octal peripherial Driver, o.c.					
					0	R 54	57.60.1682	6K8	MF, 1%, 0204, E24
) 1	K 1	56.04,0198	2u	5V, 125V/2A, AG/AU	0	R 55	57.60.1682	6K8	MF, 1%, 0204, E24
) 1	K 2	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 56	57.60.1682	6K8	MF, 1%, 0204, E24
0 1	K3	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 57	57.80.1682	6K8	MF, 1%, 0204, E24
0 1	K 4	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 58	57.60,1882	8K8	MF, 1%, 0204, E24
	K 5	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 59	57.60.1682	6K8	MF, 1%, 0204, E24
	K B	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 60	57.60.1682	8K8	MF. 1%, 0204, E24
	K7	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 61	57.60.1682	6K8	MF, 1%, 0204, E24
	K 8	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 62	57.60.1682	8K8	MF, 1%, 0204, E24
	K 9	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 63	57.60.1682	6K8	MF, 1%, 0204, E24
0 1	K 10	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 64	57.60.1682	6K8	MF, 1%, 0204, E24
	K11	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 65	57.60.1682	6K8	MF, 1%, 0204, E24
	K 12	56.04.0198	2u	5V. 125V/2A. AG/AU	0	R 66	57.60.1682	6K8	MF, 1%, 0204, E24
	K 13	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 67	57.60.1331	330R	MF, 1%, 0204, E24
	K 14	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 68	57.60.1103	10K	MF, 1%, 0204, E24
					0	R 69	57.60.1103	10K	MF, 1%, 0204, E24
	K 15	56.04.0198	2u	5V, 125V/2A, AG/AU				10K 10K	
	K 16	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 70	57.60.1103		MF, 1%, 0204, E24
	K 17	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 71	57.60.1103	10K	MF, 1%, 0204, E24
	K 18	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 72	57.60.1103	10K	MF, 1%, 0204, E24
	K 19	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 73	57,60,1103	10K	MF, 1%, 0204, E24
	K 20	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 74	57.60.1103	10K	MF, 1%, 0204, E24
	K 21	56.04.0198	2u 2u	5V. 125V/2A, AG/AU	ő	R 75	57.60.1103	10K	MF, 1%, 0204, E24
	K 22	56.04.0198	2u 2u	5V, 125V/2A, AG/AU 5V, 125V/2A, AG/AU	0	R 76	57.60.1103	10K	MF, 1%, 0204, E24
					0	R 77	57.60.1103	10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
	K 23	56.04.0198	2u	5V, 125V/2A, AG/AU					
	K 24	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 78	57,60,1103	10K	MF, 1%, 0204, E24
	K 25	56,04,0198	2u	5V, 125V/2A, AG/AU	0	R 79	57.60.1103	10K	MF, 1%, 0204, E24
0	K 26	56.04.0198	2u	5V, 125V/2A, AG/AU	0	R 80	57,60.1103	10K	MF, 1%, 0204, E24
	-			·	0	R 81	57.60.1103	10K	MF, 1%, 0204, E24
n	MP 1	1.917.415.11 1 pce		INSERT ROUTER PCB	0	R 82	57.60.1103	10K	MF, 1%, 0204, E24
	MP 1		Label	ESE-WARNSCHII D	0	R 83	57.60.1103	10K	MF, 1%, 0204, E24
		43.01.0108 1 pce	Canai		0	R 84	57,60,1103	10K	MF, 1%, 0204, E24
	MP3	1.917.415.01 1 pce		BEZ. STREIFEN 6.3x91					
	MP 4	1.010.096.49 1 pce	-	KLARSICHTSCHILD	0	R 85	57,60.1103	10K	MF, 1%, 0204, E24
0	MP 5	1.010.006.33 2 pcs	Handle	GRIFFHAELFTE					
	MP 6	28.21.1380 3 pcs		ROHRNIETE, D2.25*6.5	0	XIC 6	53.03.0165	20p	DIL 0.3", löt, gerade
	MP 7	28,99,0119 2 pcs		ROHRNIETE D 2.5*0.15* 9					
	MP 8	1.101.001.20 1 pce	Label	TEXT-ETIK 5*20 HARDWARE -20	0	XY 1	89.01,1499		QUARZ - ISOLIERPLATTE
					_	V 4	BD 04 4040	77 110 4441	22.118 400 MHz, HC 49/U
	P 1 P 2	54.11.2009 54.01.0020	96p 1p	EU-R 3*32p Pin 0.63*0.63	0	Y 1	89.01.1016	22.1184MHZ	22.110 400 MHZ, HG 49/U
	P3	54.01.0020	1p 1p	Pin 0.63*0.63				- End of List	
0									

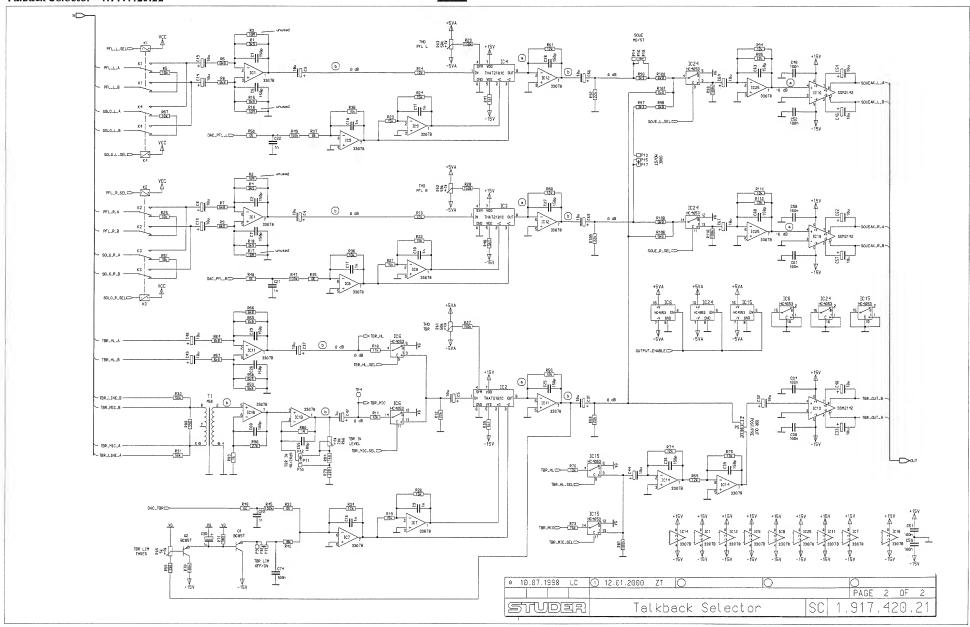
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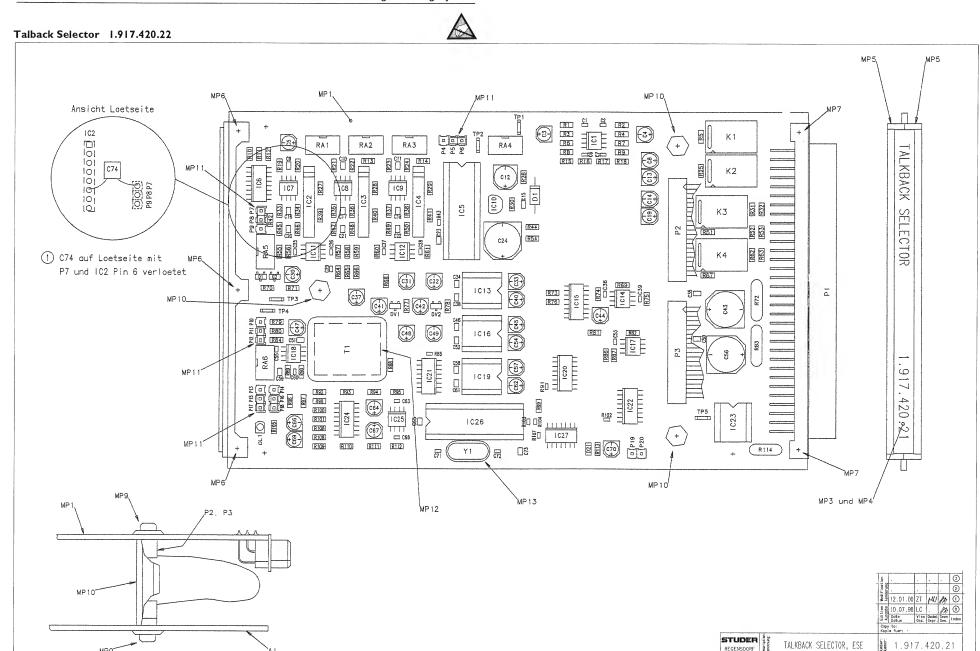






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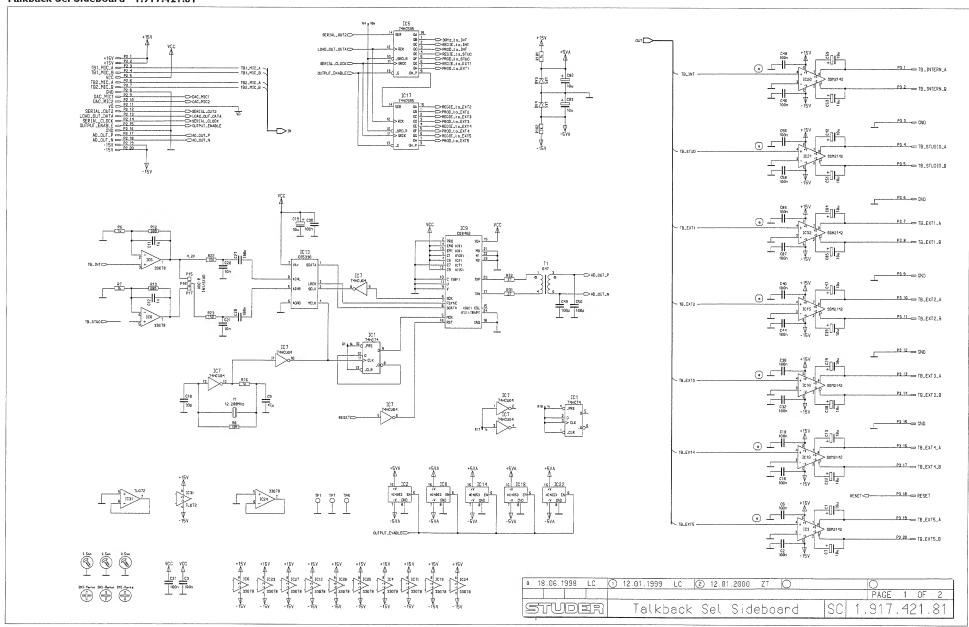




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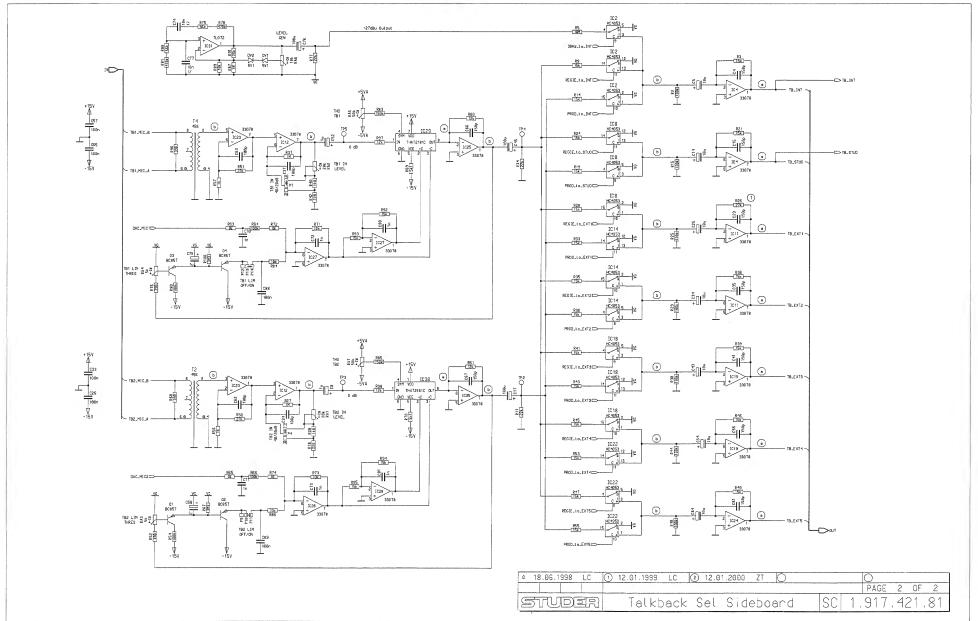
IDACK	Selector	1.717.4	20.22												
Pos.	Part No. Qty.	Type/Val.	Description	idx Pos.	Part No. Qty.	Type/Val.	Description	ldx Pos.	Part No. Qt	y. Type/Val.	Description	ldx Pos.	Part No. Qty.	Type/Val.	Description
A 1	1.917.421.81		TALKBACK SEL SIDEBOARD ,A	0 IC 1	50.61.0204		Dual Op-Amp low noise	0 R 13	57.60.1123	12K	MF, 1%, 0204, E24	1 R 94	57.60.1123	12K	MF, 1%, 0204, E24
0.1	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 IC 2	50.11.0140		C IC VCA THAT 2181C	0 R 14	57.60.1123	12K	MF, 1%, 0204, E24	1 R 95	57.60.1123	12K	MF, 1%, 0204, E24
2	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 IC 3 0 IC 4	50.11.0140		C IC VCA THAT 2181C	0 R15	57.60.1392	3K9	MF, 1%, 0204, E24	0 R 98	57.60.1332	3K3	MF, 1%, 0204, E24
3	59.68.0065	10u	EL 16V, 4.0*5.7	0 104	50.11.0140 50.19.0115		D/A Converter 8bit octal	0 R 16 0 R 17	not used	10M 10M	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R97 0 R98	57.60.1332 57.60.1682	3K3	MF, 1%, 0204, E24 MF, 1%, 0204, E24
4	59.68.0065	10u	EL 16V, 4.0*5.7	0 10 6	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R17	57.60.1392	3K9	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R99	57.60.1002	100R	MF, 1%, 0204, E24 MF, 1%, 0204, E24
5	59.68.0065	10u	EL 16V, 4.0*5.7	0 107	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 19	57.60.1153	15K	MF. 1%, 0204, E24	0 R100	57.60.1682	6K8	MF. 1%, 0204, E24
6 7	59.60.2253 59.60.2253	150p 150p	CER 50V, 5%, C0G, 0603 CER 50V, 5%, C0G, 0603	0 108	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 20	57.60,1153	15K	MF, 1%, 0204, E24	0 R 101	57.60.1562	5K6	MF, 1%, 0204, E24
8	59.68.0065	150p 10u	EL 16V. 4.0*5.7	0 IC 9	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 21	57.60.1153	15K	MF, 1%, 0204, E24	0 R 102	57.69.1097	10k	CF 5% 0603
9	59.60.2373	100	CER 50V. 5%. C0G. 0805	0 IC 10	50.10.0109	LM337L	Series regulator 100mA37V	0 R 22	57.60.1153	15K	MF, 1%, 0204, E24	0 R 103	57.69.1097	10k	CF 5% 0603
10	59.60.2373	1n0	CER 50V. 5%, COG. 0805	0 IC 11	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 23	57.60.1153	15K	MF, 1%, 0204, E24	0 R 104	57.69.1097	10k	CF 5% 0603
11	59.60.2373	1n0	CER 50V, 5%, C0G, 0805	0 IC 12	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 24	57.60.1153	15K	MF, 1%, 0204, E24	0 R 105	57.60.1331	330R	MF, 1%, 0204, E24
12	59.68.0029	100u	EL 6V, 6.3*5.7	0 IC 13	50.09.0124	2142	Audio balanced line driver	0 R 25	57.60.1103	10K	MF, 1%, 0204, E24	0 R 106	57.60.1562	5K6	MF, 1%, 0204, E24
13	59.68.0065	10u	EL 16V, 4.0*5.7	0 IC 14 0 IC 15	50.61.0204 50.62.8053	MC33078 HC4053	Dual Op-Amp low noise Tripple 2ch analog mux/demux	0 R 26 0 R 27	57.60.1121 57.60.1154	120R 150K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 107 0 R 108	57.69.1097 57.60.1682	10k 6K8	CF 5% 0603 MF, 1%, 0204, E24
14	59.68.0065	10u	EL 16V, 4.0*5.7	0 IC 15	50.02.0053	2142	Audio balanced line driver	0 R28	57.60.1154	150K	MF. 1%, 0204, E24	0 R 108	57.60.1002	22K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
15	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 17	50.61.0204	MC33078	Dual Op-Amp low noise	0 R29	57.60.1154	150K	MF. 1%, 0204, E24	0 R110	57.60.1104	100K	MF, 1%, 0204, E24
16	59.60.2373	1n0	CER 50V, 5%, C0G, 0805	0 IC 18	50.61.0204	MC33078	Dual Op-Amp low noise	0 R30	57.60.1331	330R	MF. 1%, 0204, E24	1 R 111	57.60.1123	12K	MF, 1%, 0204, E24
C 17 C 18	59.60.2373 59.60.2373	1n0 1n0	CER 50V, 5%, C0G, 0805 CER 50V, 5%, C0G, 0805	0 IC 19	50.09.0124	2142	Audio balanced line driver	2 R 31	57.60.1563	56K	MF, 1%, 0204, E24	1 R 112	57.60.1123	12K	MF, 1%, 0204, E24
19	59.60.2373	10u	EL 16V. 4.0*5.7	0 IC 20	50.62.0130	ULN2003	7*Darlington driver	2 R 32	57.60.1563	56K	MF, 1%, 0204, E24	0 R 113	57.60.1822	8K2	MF, 1%, 0204, E24
20	59.60.2373	1n0	CER 50V. 5%. C0G. 0805	0 IC 21	50.62.1595	74HC595	8bit shift/output register	0 R 33	57.60.1000	0R0	MF, 0204	0 R 114	57.92.7051	1.1A	PTC 30V
21	59.60.2373	1n0	CER 50V, 5%, C0G, 0805	0 IC 22	50.62,1165	74HC165	8bit shift register	0 R 34	57.60.1103	10K	MF, 1%, 0204, E24	0 RA 1	58.01.9503	50k	Cermet 10% 0.5W vertic
22	59.60.2373	1n0	CER 50V. 5%, C0G. 0805	0 IC 23	50.15.0115	75176	IC SN 75176 BP, DS 3695 N,	0 R 35	57,60,1000	0R0	MF, 0204	0 RA 2	58.01.9503	50k	Cermet, 10%, 0.5W, vertic
23	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 24	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R 36	57.60.1103	10K	MF, 1%, 0204, E24	0 RA3	58.01.9503	50k	Cermet, 10%, 0.5W, vertice
24	59.68.0117	220u	EL 35V, 10*10.7	0 IC 25 0 IC 26	50.61.0204 1.950.915.22	MC33078	Dual Op-Amp low noise SW 917420 TB SEL (50.16.0313)	0 R 37	57.60.1000 57.60.1103	0R0 10K	MF, 0204 MF, 1%, 0204, E24	0 RA4	58.01.9102	1k	Cermet, 10%, 0.5W, vertice
25	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 IC 26	1.950.915.22 50.62.1004	74HC 04	SW 917420 TB SEL (50.16.0313) Hex inverter	0 R38 0 R39	57.60.1103 57.60.1512	10K 5K1	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 RA 5	58.01.9502	5k	Cermet, 10%, 0.5W, vertice
26	59,60.2253	150p	CER 50V, 5%, C0G, 0803					0 R 39	57.60.1512 57.60.1512	5K1	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 RA 6	58.01.9203	20k	Cermet, 10%, 0.5W, vertice
27	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 K1	56.04.0198	2u	5V 125V 2A Ag/Au	0 R41	57.60.1512	5K1	MF, 1%, 0204, E24	0 T1	1.022.456.00	1:2.24	EINGANGSTRAFO 1:2,24
C 28	59.60.2253 59.60.2253	150p 150p	CER 50V, 5%, C0G, 0603 CER 50V, 5%, C0G, 0603	0 K 2	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 42	57,60,1103	10K	MF, 1%, 0204, E24				
C 30	59.60.2253	150p 1u0	EL 50V, 5%, COG, 0603	0 K3	56.04.0198 56.04.0198	2u	5V 125V 2A Ag/Au	0 R 43	57.69.1097	10k	CF 5% 0603	0 TP 1	54.33.6010	2.8*0.8	PCB-Flachstecker, gerade
C 31	59.68.0065	10u	EL 16V. 4.0*5.7	0 K4	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 44	57.60.1820	82R	MF, 1%, 0204, E24	0 TP 2	54.33.6010	2.8*0.8	PCB-Flachstecker, gerade
32	59.68.0065	10u	EL 16V, 4.0*5.7	0 MP 1	1.917.420.11 1 pce		TALKBACK SELECTOR PCB	0 R 45	57.60.1104	100K	MF, 1%, 0204, E24	0 TP 3	54.33.6010	2.8*0.8	PCB-Flachstecker, gerade
33	59.68.0065	10u	EL 16V, 4.0*5.7	0 MP 2	43.01.0108 1 pce	Label	ESE-WARNSCHILD	0 R 46	57.60.1000	0R0	MF, 0204	0 TP4 0 TP5	54.33.6010 54.33.6010	2.8*0.8 2.8*0.8	PCB-Flachstecker, gerade
34	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP3	1.917.420.01 1 pce		BEZ. STREIFEN 6,3x91	0 R 47	57.60.1104	100K	MF, 1%, 0204, E24 MF 0204	0 125	54.55.6010	2.6-0.6	PCB-Flachstecker, gerade
35	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP 4	1.010.096.49 1 pce	-	KLARSICHTSCHILD	0 R 48 0 R 49	57.60.1000 57.60.1104	0R0 100K	MF, 1%, 0204 MF, 1%, 0204, E24	0 XIC 23	53.03.0166	8p	DIL 0.3", löt, gerade
36	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 MP 5 0 MP 6	1.010.006.33 2 pcs 28.21.1380 3 pcs	Handle 2.25*6.5	GRIFFHAELFTE Rohmiete Ms blank	0 R 49	57.60.1104	UBU	MF 0204	0 XIC 26	53.03.0165	20p	DIL 0.3", löt, gerade
37	59.68.0065	10u	EL 16V, 4.0°5.7	0 MP6	28.21,1380 3 pcs 28.99.0119 2 pcs	2.25*6.5	ROHRNIETE D 2.5*0.15* 9	0 R 51	57.60.1103	10K	MF, 1%, 0204, E24	0 Y1	89.01.1016	22 1184MH	z XTAL HC 49/U
38	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP8	1.101.001.21 1 pce		TEXT-ETIK, 5*20 HARDWARE -21	1 R 52	57.60.1273	27K	MF, 1%, 0204, E24	0 11	09.01.1010	22.1104W/N	Z XIAL HO 48/0
39	59.60.2253 59.68.0065	150p 10u	CER 50V, 5%, C0G, 0603 EL 16V 4 0*5 7	0 MP9	21.53.9354 6 pcs	M3*6	Z-Schraube Inbus-Ripp Zn gb ch	1 R 53	57,60,1273	27K	MF, 1%, 0204, E24			End of Li	
41	59.68.0065	10u	EL 16V, 4.0*5.7	1 MP 10			MUTTERBOLZEN M 3 * 20	0 R 54	57.60.1820	82R	MF, 1%, 0204, E24			Liid of Li	o.
2 42	59.68.0065	10u	EL 16V. 4.0*5.7	0 MP 1	54.01.0021 4 pcs	Jumper	0.63 * 0.63mm	0 R 55	57,60.1391	390R	MF, 1%, 0204, E24	Comments			
43	59.68.0117	220u	EL 35V, 10 *10.7	0 MP 12			ISOLATION	0 R 56	57.60.1123	12K	MF, 1%, 0204, E24				
44	59.68.0065	10u	EL 16V, 4.0*5.7	0 MP 13			QUARZ - ISOLIERPLATTE	0 R 57	57.60.1682	6K8	MF, 1%, 0204, E24				
45	59.68.0065	10u	EL. 16V, 4.0*5.7	2 MP 14	43.10.0110	Α	Revisions-Etikette 5mm h'blau	0 R 58	57.60.1682 57.60.1682	6K8 6K8	MF, 1%, 0204, E24 MF 1% 0204, E24				
46	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P1	54.11.2009	96p	EU-R 3*32p	0 R 59 0 R 60	57.60.1062	12K	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
47	59.68.0127	1u0	EL 50V, 4.0*5.7	0 P2	1.023.392.08	444	FLACHKABEL 20 POL. 0,08M	0 R61	57.60.1123	12K	MF 1% 0204, E24				
48	59.68.0065	10u	EL 16V, 4.0*5.7	0 P3	1,023,392.08		FLACHKABEL 20 POL. 0,08M	1 R62	57.60.1273	27K	MF. 1%, 0204, E24				
49	59.68.0065	10u	EL 16V, 4.0*5.7	0 P4	54.01.0020	1p	Pin 0.63*0.63	1 R 63	57,60,1273	27K	MF, 1%, 0204, E24				
50 51	59.80.3337 59.80.3337	100n 100n	CER 50V, 10%, X7R, 0805 CER 50V, 10%, X7R, 0805	0 P5	54.01.0020	1p	Pin 0.63*0.63	0 R 64	57.60.1682	6K8	MF, 1%, 0204, E24				
52	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P6	54.01.0020	1p	Pin 0.63*0.63	0 R 65	57.60.1682	6K8	MF, 1%, 0204, E24				
53	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 P7	54.01.0020	1p	Pin 0.63*0.63	0 R 66	57.60.1682	6K8	MF, 1%, 0204, E24				
54	59.68.0065	10u	EL 16V, 4.0*5.7	0 P8	54.01.0020	1p	Pin 0.63*0.63	0 R 67	57.60.1103	10K	MF, 1%, 0204, E24				
55	59.60.2249	100p	CER 50V, 5%, C0G, 0603	0 P9	54.01.0020 54.01.0020	1p	Pin 0.63*0.63 Pin 0.63*0.63	0 R 68	57.60.1223	22K	MF, 1%, 0204, E24				
56	59.68.0117	220u	EL 35V, 10*10.7	0 P10	54.01.0020	1p 1p	Pin 0.63*0.63 Pin 0.63*0.63	0 R 69	57.60.1123	12K	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
57	59.68.0065	10u	EL 16V, 4.0*5.7	0 P12	54.01.0020	1p 1p	Pin 0.63*0.63	0 R70 0 R71	57.60.1104 57.60.1335	100K	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
58	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P13	54.01.0020	1p	Pin 0.63*0.63	0 R71 0 R72	57.60.1335 57.92.7021	3M3 0.9A	MF, 1%, 0204, E24 PTC 60V				
59	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P14	54.01.0020	1p	Pin 0.63*0.63	0 R72	57.92.7021	0.9A 15K	MF. 1%, 0204, E24				
60	59.60.2249	100p	CER 50V, 5%, COG, 0603	0 P15	54.01.0020	1p	Pin 0.63*0.63	0 R74	57.60.1153	12K	MF. 1%, 0204, E24				
61 62	59.60.3337 59.68.0065	100n 10u	CER 50V, 10%, X7R, 0805	0 P 16	54.01.0020	1p	Pin 0.63*0.63	0 R75	57.60.1133	13K	MF, 1%, 0204, E24				
62 63	59.68.0065 59.60.2253	10u 150p	EL 16V, 4.0*5.7 CER 50V, 5%, C0G, 0603	0 P 17	54.01.0020	1p	Pin 0.63*0.63	0 R 76	57.60.1133	13K	MF, 1%, 0204, E24				
63 64	59.60.2253 59.68.0065	150p 10u	CER 50V, 5%, C0G, 0803 EL 16V. 4.0*5.7	0 P 18	54.01.0020	1p	Pin 0.63*0.63	0 R 77	57.60.1102	1K	MF, 1%, 0204, E24				
65	59.60.3337	100 100n	CER 50V. 10%. X7R. 0805	0 P 19	54.01.0020	1p	Pin 0.63*0.63	0 R 78	57.60.1102	1K	MF, 1%, 0204, E24				
66	59.68.0065	10u	EL 16V, 4.0*5.7	0 P 20	54.01.0020	1p	Pin 0.63*0.63	0 R 79	57.60.1221	220R	MF, 1%, 0204, E24				
67	59.68.0065	10u	EL 16V, 4.0*5.7	0 Q1	50.60.1001	BC857B	PNP 45V 100mA SOT 23	0 R 80	57.60.1105	1M	MF, 1%, 0204, E24				
68	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 Q2	50.60.1001	BC857B	PNP 45V 100mA SOT 23	0 R 81	57.60.1104	100K	MF, 1%, 0204, E24				
69	59.68.0065	10u	EL 16V, 4.0*5.7	0 R1	57.60.1392	3K9	MF. 1%, 0204, F24	0 R 82	57.60.1101	100R	MF, 1%, 0204, E24				
70	59.68.0065	10u	EL 16V, 4.0*5.7	0 R1 0 R2	57.50.1392 not used	3K9 10M	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R83	57.92.7021	0.9A	PTC 60V				
71	59.60.2237	33p	CER 50V, 5%, C0G, 0603	0 R2	not used	10M 10M	MF, 1%, 0204, E24 MF 1%, 0204, E24	0 R 84 0 R 85	57.60.1182 57.69.1097	1K8	MF, 1%, 0204, E24				
72	59.60.2237	33p	CER 50V, 5%, C0G, 0603	0 R3	57.60.1392	3K9	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R85 0 R86	57.69.1097 57.60.1330	10k 33R	CF 5% 0603 MF, 1%, 0204, E24				
73	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 R5	57.60.1103	10K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R86	57.60.1330 57.60.1151	33R 150R	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
74	59.40.0104	100n	PETP, 63V, 10%, RM5	0 R6	57.60.1682	6K8	MF, 1%, 0204, E24	0 R88	57.60.1151	150R 390R	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
1	50.04.0122	1N4001	1A, DO 41	0 R7	57.60.1682	6K8	MF, 1%, 0204, E24	0 R89	57.60.1102	1K	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
2	50.60.8001	4448	200mA 75V 4ns SOD 80	0 R8	57.60.1682	6K8	MF, 1%, 0204, E24	0 R90	57.60.1102	27K	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
				0 R9	57.60.1682	6K8	MF, 1%, 0204, E24	0 R91	57.69.1097	10k	CF 5% 0603				
DL 1	50.04.2132	TLUG 2401	DL TLUG 2401 GN MATT	1 R 10	57,60,1113	11K	MF, 1%, 0204, E24	0 R 92	57.60.1223	22K	MF, 1%, 0204, E24				
	50.60.9010	5V1	5%, 0.2W, SOT 23	0 R 11	57.60.1123	12K	MF, 1%, 0204, E24	0 R93	57.60.1104	100K	MF, 1%, 0204, E24				
DV 1				0 R 12	57.60.1223	22K	MF, 1%, 0204, E24								

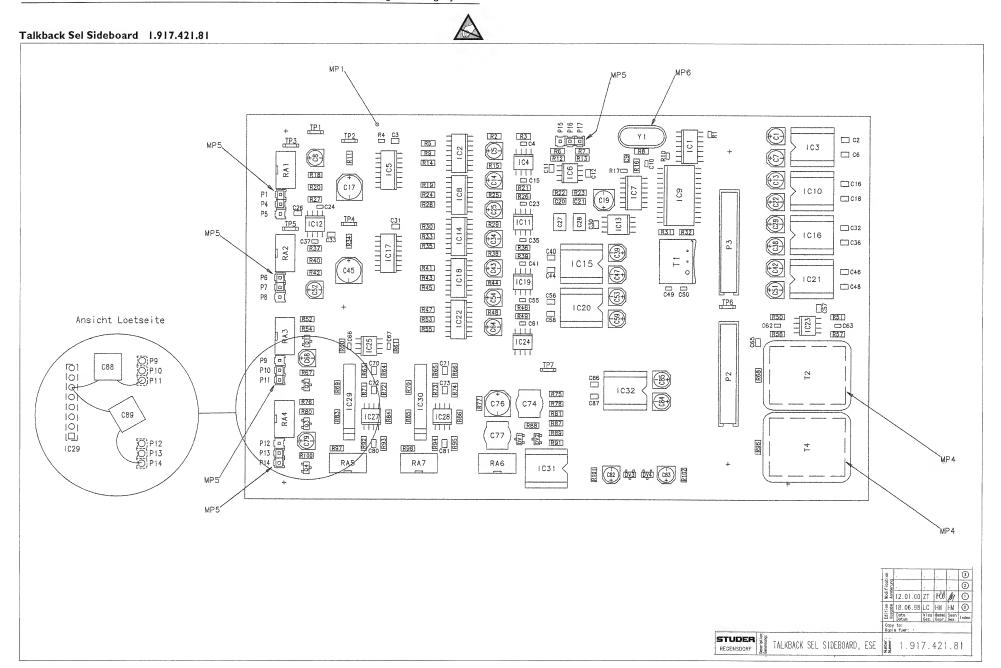
Talkback Sel Sideboard 1.917.421.81





Talkback Sel Sideboard 1.917.421.81





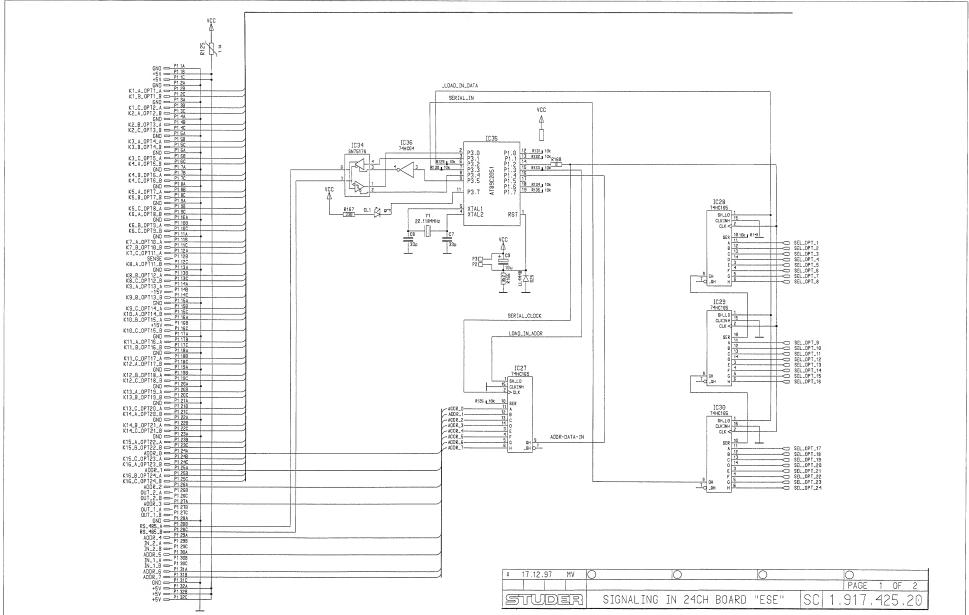


Talkback Sel Sideboard 1.917.421.81

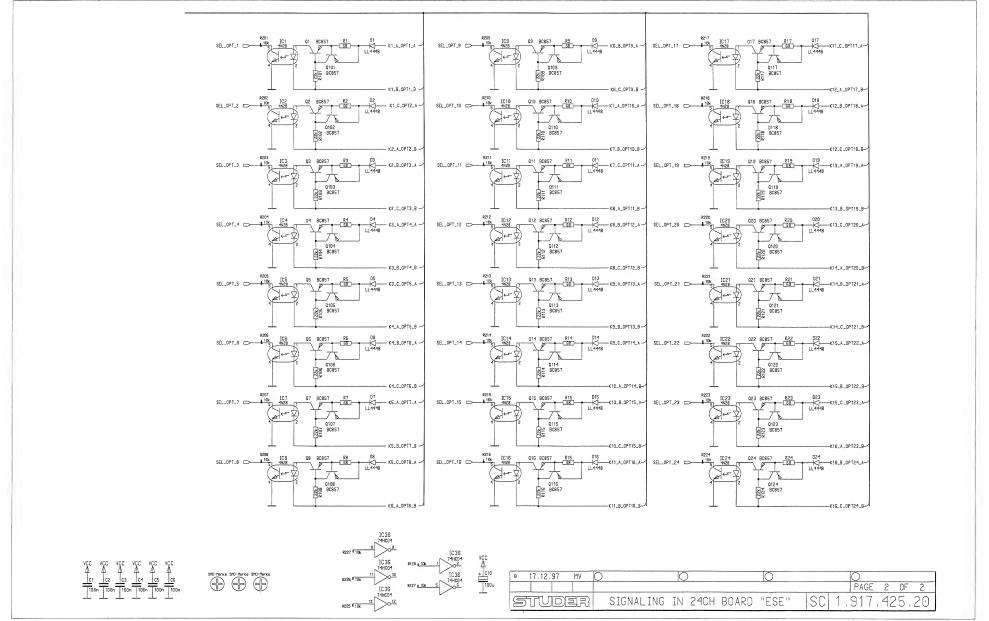
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Pos.	Part No. Qty.	Type/Val.	Description	ldx Pos.	Part No. Qty.	Type/Val.	Description	idx Pos.	Part No. Qty.	Type/Val.	Description	ldx Pos.	Part No. Qty.	Type/Val.	Description
C 1	59.68.0065	10u	EL 16V, 4.0*5.7	0 C 87	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 R 13	57.60.1681	680R	MF, 1%, 0204, E24	0 R 91	57.60.1203	20K	MF, 1%, 0204, E24
C 2	59.60.3337	100n	CER 50V, 10%, X7R, 0805	3 C 88	59.40.0104	100n	PETP, 63V, 10%, RM5	0 R 14	57.60.1153	15K	MF, 1%, 0204, E24	0 R 92	57.60.1153	15K	MF, 1%, 0204, E24
3	59.60.3337	100n	CER 50V, 10%, X7R, 0805	3 C 89	59.40.0104	100n	PETP, 63V, 10%, RM5	0 R 15	57.60.1104	100K	MF, 1%, 0204, E24	0 R 93	57.60.1153	15K	MF, 1%, 0204, E24
4	59.60.2253	150p	CER 50V, 5%, COG, 0603	0 DV 1	50.60.9010	5V1	5%. 0.2W. SOT 23	0 R 16	57.60.1102	1K	MF, 1%, 0204, E24	0 R 94 0 R 95	57.60.1153 57.60.1153	15K 15K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
5 6	59.68.0065 59.60.3337	10u 100n	EL 16V, 4.0*5.7 CER 50V, 10%, X7R, 0805	0 DV 2	50,60,9010	5V1	5%, 0.2W, SOT 23	0 R 17	57.69.1073	1 k0	CF 5% 0603	0 R95	57.60.1153 57.60.1391	15K 390R	MF, 1%, 0204, E24 MF, 1%, 0204, E24
7	59.60.3337	10un 10u	FL 16V 4.0*5 7	0 DV 3	50.60.9010	5V1	5%, 0.2W, SOT 23	0 R 18	57.60.1221	220R	MF, 1%, 0204, E24	0 R 97	57.60.1123	12K	MF, 1%, 0204, E24
8	59.68.0127	1u0	EL 50V. 4.0*5.7	0 DV 4	50.60.9010	5V1	5%, 0.2W, SOT 23	0 R 19	57.60.1153 57.60.1182	15K 1K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R98	57.60.1123	12K	MF. 1%, 0204, E24
9	59.60.2341	47p	CER 50V, 5%, COG, 0805		50.00.4004			0 R 20	57.60.1182 57.60.1153	1K8 15K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 100	57,60,1335	3M3	MF, 1%, 0204, E24
10	59.60.2237	33p	CER 50V, 5%, COG, 0603	0 IC1 0 IC2	50.62.1074 50.62.8053	74HC 74	Dual D-type FF, preset clear	0 R 21	57.60.1153 57.60.1151	15K 150R	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 101	57.60.1102	1K	MF, 1%, 0204, E24
11	59.60.2373	1n0	CER 50V. 5%, COG, 0805	0 IC2	50.62.8053	HC4053 2142	Tripple 2ch analog mux/demux Audio balanced line driver	0 R 23	57.60.1151	150R	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 R 102	57.60.1102	1K	MF, 1%, 0204, E24
12	59.60.2373	1n0	CER 50V, 5%, COG, 0805	0 10 3	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 24	57.60.1153	15K	MF, 1%, 0204, E24	0 RA 1	58.01.9203	20k	Cermet 10% 0.5W vertica
13	59.68.0065	10u	EL 16V, 4.0*5.7	0 10 5	50.62.1595	74HC595	8bit shift/output register	0 R 25	57.60.1104	100K	MF, 1%, 0204, E24	0 RA1	58.01.9203 58.01.9203	20k 20k	Cermet, 10%, 0.5W, vertical
14	59.68.0065	10u	EL 16V, 4.0*5.7	0 10 6	50.61.0204	MC33078	Dual Op-Amp low noise	1 R 26	57.60.1153	15K	MF, 1%, 0204, E24	0 RA2	58.01.9203	5k	Cermet, 10%, 0.5W, vertical
15	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 IC 7	50.62.1904	74HCU04	Hex inverter unbuffered	0 R 27	57.60.1105	1M	MF, 1%, 0204, E24	0 RA4	58 01 9502	5k	Cermet 10% 0.5W vertice
16	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC8	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R 28	57.60.1153	15K	MF, 1%, 0204, E24	0 RA 5	58.01.9503	50k	Cermet, 10%, 0.5W, vertical
17	59.68.0029	100u	EL 6V, 6.3*5.7	0 IC 9	50.62.0910	CS8402A	Dig audio interface transmitt	0 R 29	57.60.1104	100K	MF, 1%, 0204, E24	0 RA 6	58.01.9103	10k	Cermet, 10%, 0.5W, vertica
18 19	59.60.3337 59.68.0109	100n	CER 50V, 10%, X7R, 0805	0 IC 10	50.09.0124	2142	Audio balanced line driver	0 R 30	57.60.1153	15K	MF, 1%, 0204, E24	0 RA 7	58.01.9503	50k	Cermet, 10%, 0.5W, vertical
19 20	59.68.0109 59.63.0113	10u 10n	EL 35V, 5.0*5.7 PEN 50V, 5%, 1206	0 IC 11	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 31	57.60.1270	27R	MF, 1%, 0204, E24				
21	59.63.0113	10n	PEN 50V, 5%, 1206 PEN 50V 5% 1206	0 IC 12	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 32	57.60.1270	27R	MF, 1%, 0204, E24	0 T1	1.022.647.00	1:1.4	OUTPUT TRAFO AES/EBU
22	59.68.0065	10n 10u	EL 16V. 4.0*5.7	0 IC 13	50.61.8102	CS5330A	A/D Converter 18bit Ste SO 8	0 R 33	57.60.1153	15K	MF, 1%, 0204, E24	0 T2 0 T4	1.022.456.00 1.022.456.00	1:2.24 1:2.24	EINGANGSTRAFO 1:2,24 EINGANGSTRAFO 1:2,24
23	59.60.2253	150p	CER 50V. 5%. COG. 0603	0 IC 14	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R 34	57.60.1223	22K	MF, 1%, 0204, E24		1.022.430.00	1.2.24	LINGANGO FAFO 1:2,24
24	59.60.2249	100p	CER 50V, 5%, C0G, 0803	0 IC 15	50.09.0124	2142	Audio balanced line driver	0 R 35 0 R 36	57.60.1153 57.60.1153	15K 15K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 TP 1	54.33.6010	2.8*0.8	PCB-Flachstecker, gerade
25	59.68.0065	10up	EL 16V, 4.0*5.7	0 IC 16 0 IC 17	50.09.0124 50.62.1595	2142 74HC595	Audio balanced line driver 8bit shift/outout register	0 R36 0 R37	57.60.1153 57.60.1105	15K 1M	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 TP 2	54.33.6010	2.8*0.8	PCB-Flachstecker, gerade
26	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 17 0 IC 18	50.62.1595 50.62.8053	74HC595 HC4053	8bit shift/output register Tripple 2ch analog mux/demux	0 R37	57.60.1105 57.60.1104	1M 100K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	0 TP 3	54.33.6010	2.8*0.8	PCB-Flachstecker, gerade
27	59.63.0125	100n	PEN 50V, 5%, 1812	0 IC 18 0 IC 19	50.62.8053 50.61.0204	HC4053 MC33078	Tripple 2ch analog mux/demux Dual Op-Amp low noise	0 R38	57.60.1104 57.60.1153	100K 15K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	2 TP 4	not used	2.8*0.8	PCB-Flachstecker, gerade
28	59.63.0125	100n	PEN 50V, 5%, 1812	0 IC 20	50.01.0204	2142	Audio balanced line driver	0 R 40	57.60.1182	15K	MF, 1%, 0204, E24 MF 1% 0204 F24	0 TP 5	54.33.6010	2.8*0.8	PCB-Flachstecker, gerade
29	59.68.0065	10u	EL 16V, 4.0*5.7	0 IC 20	50.09.0124	2142	Audio balanced line driver	0 R41	57.60.1153	15K	MF, 1%, 0204, E24	0 TP 6	54.33.6010	2.8*0.8	PCB-Flachstecker, gerade
30	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 22	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R 42	57.60.1221	220R	MF. 1%, 0204, E24	0 TP 7	54.33.6010	2.8*0.8	PCB-Flachstecker, gerade
31	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 23	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 43	57.60.1153	15K	MF, 1%, 0204, E24	0 Y1	89.01.1015	12.288MHz	XTAL HC 49/U
32	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 24	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 44	57.60.1104	100K	MF, 1%, 0204, E24				
33	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 25	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 45	57.60.1153	15K	MF, 1%, 0204, E24	-		End of Li	st
34	59.68.0065	10u	EL 16V, 4.0*5.7	0 IC 27	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 46	57.60.1153	15K	MF, 1%, 0204, E24				
35	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 IC 28	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 47	57.60.1153	15K	MF, 1%, 0204, E24	Comments			
36 37	59.60.3337 59.60.2249	100n	CER 50V, 10%, X7R, 0805	0 IC 29	50.11.0140	THAT21810	IC VCA THAT 2181C	0 R 48	57.60.1104	100K	MF, 1%, 0204, E24				
	59.60.2249 59.68.0085	100p 10u	CER 50V, 5%, C0G, 0603 EL 16V, 4.0*5.7	0 IC 30	50.11.0140		IC VCA THAT 2181C	0 R 49	57.60.1153	15K	MF, 1%, 0204, E24				
38 39	59.68.0065	10u 10u	EL 16V, 4.0°5.7	0 IC 31	50.09.0101	TL072	IC TL 072 CN ,A	0 R 50	57.60.1273	27K	MF, 1%, 0204, E24				
40	59.60.3337	100 100n	CER 50V, 10%, X7R, 0805	0 IC 32	50.09.0124	2142	Audlo balanced line driver	0 R 51	57.80.1273	27K	MF, 1%, 0204, E24				
41	59.60.2253	1500	CER 50V, 10%, X/R, 0605 CER 50V, 5%, COG, 0603	0 MP 1	1.917.421.12		TALKBACK SEL SIDEBOARD PCB	0 R 52	57.60.1391	390R	MF, 1%, 0204, E24				
42	59.68.0065	10u	EL 16V. 4.0*5.7	0 MP2	43.01.0108	Label	ESE-WARNSCHILD	0 R 53 0 R 54	57.60.1153	15K	MF, 1%, 0204, E24				
43	59.68.0065	10u	EL 16V, 4.0*5.7	0 MP3	1.917.421.04	Luboi	NR-ETIKETTE 5 X 20	0 R54 0 R55	57.60.1104 57.60.1153	100K 15K	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
44	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP 4	1.022.400.03 2 pcs		ISOLATION	0 R 56	57.60.1102	15K	MF. 1%, 0204, E24				
45	59.68.0029	100u	EL 6V, 6.3*5.7	0 MP 5	54.01.0021 5 pcs	Jumper	0.63 * 0.63mm	0 R 57	57.60.1102	1K 1K	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
48	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP 6	89.01.1499		QUARZ - ISOLIERPLATTE	0 R 60	57.60.1123	12K	MF. 1%, 0204, E24				
47	59.68.0065	10u	EL 16V, 4.0*5.7	3 MP 7	43.10.0110	A	Revisions-Etikette 5mm h'blau	0 R 61	57.60.1123	12K	MF, 1%, 0204, E24				
48	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P1	54.01.0020	10	Pin 0.63*0.63	0 R 63	57.60.1000	ORO.	MF. 0204				
49	59.60.2249	100p	CER 50V, 5%, C0G, 0603	0 P1	54.01.0020	1p 20p	PCB-Buchse gerade	0 R 64	57.60.1104	100K	MF, 1%, 0204, E24				
50	59.60.2249	100p	CER 50V, 5%, C0G, 0603	0 P3	54.14.5520	20p	PCB-Buchse gerade	0 R 65	57.60.1000	0R0	MF, 0204				
51	59.68.0065	10u	EL 16V, 4.0*5.7	0 P4	54.01.0020	1p	Pin 0.63*0.63	0 R 66	57.60.1104	100K	MF, 1%, 0204, E24				
52	59.68.0127	1u0	EL 50V, 4.0*5.7	0 P5	54.01.0020	1p	Pin 0.83*0.63	0 R 67	57.60.1335	3M3	MF, 1%, 0204, E24				
53	59.68.0065	10u	EL 16V, 4.0*5.7 EL 16V, 4.0*5.7	0 P6	54.01.0020	10	Pin 0.63*0.63	0 R 68	57.60.1391	390R	MF, 1%, 0204, E24				
54	59.68.0085 59.60.2253	10u	CER 50V, 5%, C0G, 0603	0 P7	54.01.0020	1p	Pin 0.63*0.63	0 R 69	57.60.1512	5K1	MF, 1%, 0204, E24				
55 56	59.60.2253 59.60.3337	150p 100n	CER 50V, 5%, C0G, 0603 CER 50V. 10%. X7R. 0805	0 P8	54.01.0020	1p	Pin 0.63*0.63	0 R 70	57.60.1512	5K1	MF, 1%, 0204, E24				
50 57	59.60.3337 59.60.3337	100n 100n	CER 50V, 10%, X7R, 0805 CER 50V, 10%, X7R, 0805	0 P9	54.01.0020	1p	Pin 0.83*0.63	0 R 71	57.60.1103	10K	MF, 1%, 0204, E24				
5 <i>1</i> 58	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P10	54.01.0020	1p	Pin 0.63*0.63	0 R72	57.60.1000	0R0	MF, 0204				
59	59.68.0065	10u	EL 16V, 4.0*5.7	0 P11	54.01.0020	1p	Pin 0.63*0.63	0 R 73 0 R 74	57.60.1103 57.60.1000	10K 0R0	MF, 1%, 0204, E24 MF. 0204				
31	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 P 12	54.01.0020	1p	Pin 0.63*0.63	0 R74	57.60.1000 57.60.1563	0R0 56K	MF, 0204 MF, 1%, 0204, E24				
32	59.60.2249	100p	CER 50V, 5%, C0G, 0603	0 P13	54.01.0020	1p	Pin 0.63*0.63	0 R 75	57.60.1563 57.60.1391	56K 390R	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
13	59.60.2249	100p	CER 50V, 5%, C0G, 0603	0 P 14	54.01.0020	1p	Pin 0.63*0.63	0 R76	57.60.1391 57.60.1223	390R 22K	MF, 1%, 0204, E24 MF 1% 0204 F24				
34	59.68.0065	10u	EL 16V, 4.0*5.7	0 P 15	54.01.0020	1p	Pin 0.63*0.63	0 R78	57.60.1474	470K	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
15	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P 16	54.01.0020	1p	Pin 0.63*0.63	0 R80	57.60.1104	100K	MF. 1%, 0204, E24				
66	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 P 17	54.01.0020	1p	Pin 0.63*0.63	0 R 81	57.60,1474	470K	MF, 1%, 0204, E24				
7	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 Q1	50.60.1001	BC857B	PNP 45V 100mA SOT 23	0 R 83	57.60.1154	150K	MF, 1%, 0204, E24				
8	59.68.0127	1u0	EL 50V, 4.0*5.7	0 Q2	50.60.1001	BC857B	PNP 45V 100mA SOT 23	0 R 84	57.60.1103	10K	MF, 1%, 0204, E24				
0	59.60.2373	1n0	CER 50V, 5%, COG, 0805	0 Q3	50.60.1001	BC857B	PNP 45V 100mA SOT 23	0 R 85	57.60.1154	150K	MF, 1%, 0204, E24				
71	59.60.2373 59.60.2373	1n0 1n0	CER 50V, 5%, C0G, 0805 CER 50V, 5%, C0G, 0805	0 Q4	50.60.1001	BC857B	PNP 45V 100mA SOT 23	0 R 86	57.60,1103	10K	MF, 1%, 0204, E24				
/2 73	59.60.2373 59.60.2373	1n0 1n0	CER 50V, 5%, COG, 0805 CER 50V. 5%, COG, 0805	0 R1	57.69.1073	1k0	CF 5% 0603	0 R 87	57.60.1105	1M	MF, 1%, 0204, E24				
/3 74	59.60.2373 59.05.1103	1n0 10n	CER 50V, 5%, COG, 0805 PP 1%, 63V	0 R1	57.69.1073 57.60.1104	160 100K	MF, 1%, 0204, E24	0 R 88	57.60.1563	56K	MF, 1%, 0204, E24				
74 76	59.05.1103 59.68.0029	10n 100u	PP, 1%, 63V EL 6V, 6.3*5.7	0 R2	57.60.1104	15K	MF 1% 0204 F24	0 R89	57.60.1103	10K	MF, 1%, 0204, E24				
76 77	59.68.0029	100u 10n	PP. 1%. 63V	0 R3	57.60.1153	10k	CF 5% 0603								
71 79	59.68.0127	10h 1u0	EL 50V. 4.0*5.7	0 R5	57.60.1106	10M	MF 1% 0204 E24								
79 80	59.68.0127	100 1n0	CER 50V, 4.0"5.7 CER 50V, 5%, COG, 0805	0 R6	57.60.1102	1K	MF, 1%, 0204, E24 MF, 1%, 0204, E24								
81	59.60.2373	1n0 1n0	CER 50V, 5%, COG, 0805	0 R7	57.60.1102	1K	MF. 1%, 0204, E24								
B2	59.60.2373	10u	EL 16V, 4.0*5.7	0 R8	57.60.1102	10M	MF, 1%, 0204, E24								
83	59.68.0065	10u	EL 16V, 4.03.7	0 R9	57.60.1153	15K	MF, 1%, 0204, E24								
84	59.68.0065	100	EL 16V, 4.0*5.7	0 R 10	57.69.1073	1k0	CF 5% 0603								
				0 R 11	57.60.1223										
85	59.68.0065	10u	EL 16V. 4.0*5.7	ווא ט	57.60.1223	22K	MF, 1%, 0204, E24								

Signaling IN 24CH Board 1.917.425.20









Signaling IN 24CH Board 1.917.425.20 MP3 XIC35 MP4 R204 R203 R202 R201 R125 R104 | R4 g3 q103 D25 0000 C10 13 E R103 D3 S R141 🗀 □ R134 ± R101 D1 **IGNALING** □ R135 D4 8 1026 1035 Q5 Q105 106 R5 R106 D6 97 9107 □R133 0 R205 ____R168 R130 R105 D5 R107 D7 1C8 R8 R8 D6 XY1 107 DL1 □R132 R167 □R131 Q10 Q110 F10 R10 | Q11 | Q111 | Q Q9 Q109 012 Q112 = C12 = R12 = C12 Z R212 R211 R209 R209 ___ C5 R128 1010 24CH 1034 □ R225 R109 D9 R112 D12 X1C34 -□R226 30 1029 914 9114 915 9115 □R227 016 0116 = R213 R214 R215 R216 BOARD IC14 R114 D14 IC15 R115 D15 1C16 R116 D16 IC13 < ____ R13 C6 n. 0000 R113 D13 R 126] | 019 0119 020 Q120 = R220 CC R219 CC R218 CC R217 C R117 D17 IC19 R19 R119 D19 1018 R120 D20 1030 022 0122 | C22 | R22 | R22 | D22 023 0123 024 0124 = R221 R222 R223 R224 1023 | R23 | R23 | D23 1C24 R24 R24 D24 9 0000 17 .425 MP5 20 MP7 MP6 MP1 STUDER SIGNALING IN 24CH BOARD 'ESE' 1.917.425.20 REGENSDORF

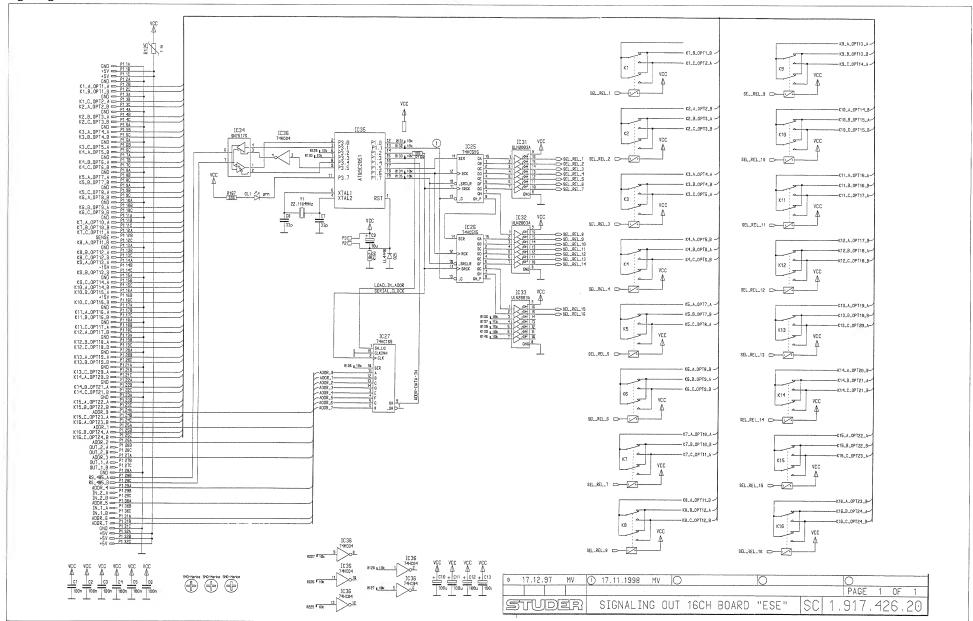


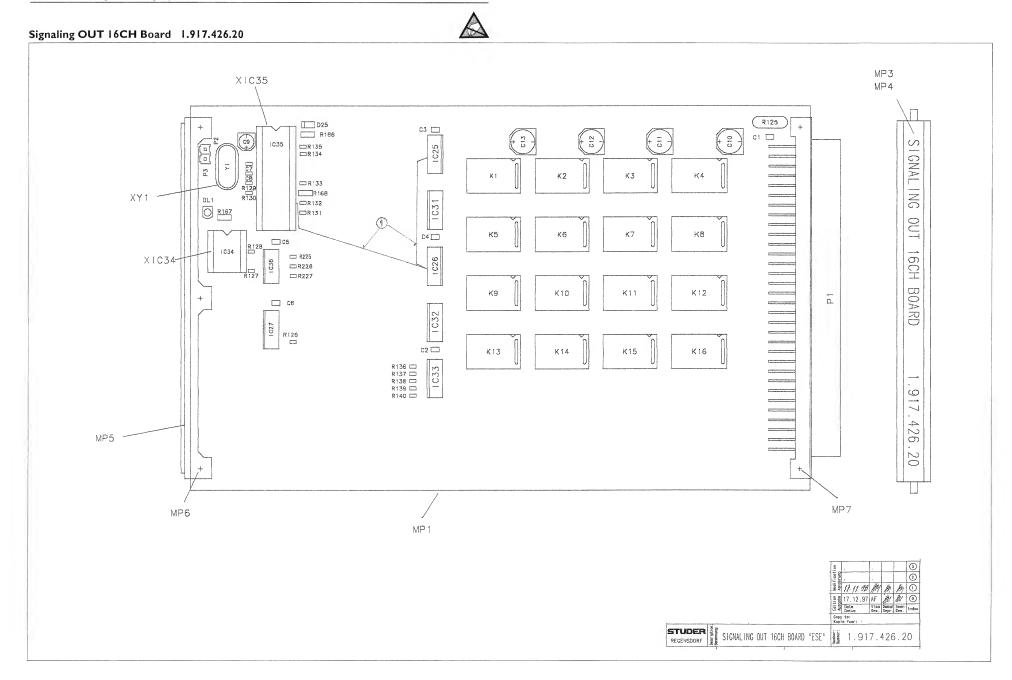
Signaling IN 24CH Board 1.917.425.22

Pos.	Part No.	Qty. T	ype/Val.	Description	ldx. Pos.	Part No.	Qty.	Type/Val.	Description		ldx. Pos.	Part No.	Qty. Type/Val.	Description
C 1	59.60 3337	1	00n	CER 50V. 10%, X7R, 0805	0 P2	54.01.0	120	1p	Pin 0.63*0.63	T I I I I I I I I I I I I I I I I I I I	0 R 106	57.60.1223	22K	MF, 1%, 0204, E24
32	59.60.3337		00n	CER 50V, 10%, X7R, 0805	0 P3	54,01.0		1p	Pin 0.63*0.63		0 R 107	57.60.1223	22K	MF. 1%, 0204, E24
C3	59.60.3337		00n	CER 50V, 10%, X7R, 0805	0 . 0	04,01.0	020	. P	1 111 0.00 0.00		0 R 108	57.60.1223	22K	MF, 1%, 0204, E24
4	59.60.3337		00n	CER 50V, 10%, X7R, 0805	0 Q1	50.60.1	001	BC857B	Q BC 857 B,	SOT 23	0 R 109	57.60.1223	22K	MF. 1%. 0204. E24
5	59.60.3337		00n	CER 50V, 10%, X7R, 0805	0 Q2	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 110	57.60.1223	22K	MF, 1%, 0204, E24
6	59.60.3337		00n	CER 50V, 10%, X7R, 0805	0 03	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 111	57.60.1223	22K	MF. 1%. 0204. E24
7	59.60.2237		3p	CER 50V. 5%. C0G. 0603	0 Q4	50.60.1		BC857B	Q BC 857 B.	SOT 23	0 R 112	57.60.1223	22K	MF. 1%. 0204. E24
8	59.60.2237		13p	CER 50V, 5%, C0G, 0803	0 05	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 113	57.60.1223	22K	MF, 1%, 0204, E24
39	59.68.0065		Ou Ou	C-EL 16V, 4.0*5.7	0 06	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 114	57.60.1223	22K	MF. 1%, 0204, E24
					0 Q 6	50.60.1		BC857B		SOT 23				
10	59.68.0029	1	00u	C-EL 6V, 6.3*5.7					Q BC 857 B,		0 R 115	57.60.1223	22K	MF, 1%, 0204, E24
					0 Q8	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 116	57.60.1223	22K	MF, 1%, 0204, E24
D 1	50.60.8001		448	D LL 4448 SOD 80	0 Q9	50,60.1		BC857B	Q BC 857 B,	SOT 23	0 R 117	57.60.1223	22K	MF, 1%, 0204, E24
D 2	50,60,8001		448	D LL 4448 SOD 80	0 Q 10	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 118	57.60.1223	22K	MF, 1%, 0204, E24
D 3	50.60.8001		448	D LL 4448 SOD 80	0 Q 11	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 119	57.60.1223	22K	MF, 1%, 0204, E24
O 4	50,60.8001		1448	D LL 4448 SOD 80	0 Q 12	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 120	57.60.1223	22K	MF, 1%, 0204, E24
5 0	50.60.8001		1448	D LL 4448 SOD 80	0 Q 13	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 121	57.60.1223	22K	MF, 1%, 0204, E24
D 6	50.60.8001	4	1448	D LL 4448 SOD 80	0 Q 14	50.60.1	001	BC857B	Q BC 857 B,	SOT 23	0 R 122	57.60.1223	22K	MF, 1%, 0204, E24
7	50.60.8001	4	1448	D LL 4448 SOD 80	0 Q 15	50,60,1	001	BC857B	Q BC 857 B,	SOT 23	0 R 123	57.60.1223	22K	MF, 1%, 0204, E24
D 8	50.60.8001	4	1448	D LL 4448 SOD 80	0 Q 16	50,60.1	001	BC857B	Q BC 857 B,	SOT 23	0 R 124	57.60.1223	22K	MF. 1%, 0204, E24
0.9	50.60.8001		1448	D LL 4448 SOD 80	0 Q 17	50,60,1		BC857B	Q BC 857 B.	SOT 23	0 R 125	57.92.7051	1.1A	POLY- PTC, 30V
10	50.60.8001		1448	D LL 4448 SOD 80	0 Q 18	50.60.1	001	BC857B	Q BC 857 B,	SOT 23	0 R 126	57.69.1097	10k	Chip 0603, 5%, carbon
11	50.60.8001		1448	D LL 4448 SOD 80	0 Q 19	50.60.1		BC857B	Q BC 857 B.	SOT 23	0 R 127	57.69.1097	10k	Chip 0803, 5%, carbon
	50.60.8001		1448	D LL 4448 SOD 80	0 Q 20	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 127	57.69.1097	10k	Chip 0603, 5%, carbon
12			1448 1448		0 Q 20	50.60.1		BC857B	Q BC 857 B.	SOT 23				
13	50.60.8001				0 Q 21	50.60.1		BC857B BC857B	Q BC 857 B,	SOT 23	0 R 129 0 R 130	57.69.1097	10k	Chip 0803, 5%, carbon
14	50.60.8001		1448									57.69.1097	10k	Chip 0503, 5%, carbon
15	50.60.8001		1448	D LL 4448 SOD 80	0 Q 23	50.60.1		BC857B	Q BC 857 B,	SOT 23	0 R 131	57.69.1097	10k	Chip 0603, 5%, carbon
16	50.60.8001		1448	D LL 4448 SOD 80	0 Q 24			BC857B	Q BC 857 B,	SOT 23	0 R 132	57.69,1097	10k	Chip 0603, 5%, carbon
17	50,60.8001		1448	D LL 4448 SOD 80	0 Q 10			BC857B	Q BC 857 B,	SOT 23	0 R 133	57.69.1097	10k	Chip 0603, 5%, carbon
18	50,60,8001	4	1448	D LL 4448 SOD 80	0 Q 10			BC857B	Q BC 857 B,	SOT 23	0 R 134	57.69.1097	10k	Chip 0603, 5%, carbon
19	50.60.8001	4	1448	D LL 4448 SOD 80	0 Q 10	3 50,60,1	001	BC857B	Q BC 857 B,	SOT 23	0 R 135	57.69.1097	10k	Chip 0603, 5%, carbon
D 20	50.60.8001	4	1448	D LL 4448 SOD 80	0 Q 104	4 50.60,1	001	BC857B	Q BC 857 B,	SOT 23	0 R 141	57.69.1097	10k	Chip 0603, 5%, carbon
21	50.60.8001		1448	D LL 4448 SOD 80	0 Q 10	5 50.60.1	001	BC857B	Q BC 857 B.	SOT 23	0 R 166	57.60.1822	8K2	MF, 1%, 0204, E24
22	50,60,8001		1448	D LL 4448 SOD 80	0 Q 10	6 50.60.1	001	BC857B	Q BC 857 B,	SQT 23	0 R 167	57.60 1331	330R	MF, 1%, 0204, E24
23	50.60.8001		1448	D LL 4448 SOD 80	0 0 10			BC857B	Q BC 857 B,	SOT 23	0 R 168	57.60,1000	0R0	MF. 0204
24	50.60.8001		1448	D LL 4448 SOD 80	0 Q 10			BC857B	Q BC 857 B.	SOT 23	0 R 201	57.69.1007	10k	Chip 0603, 5%, carbon
					0 Q 10			BC857B	Q BC 857 B.	SOT 23	0 R 202	57.69.1097	10k	
25	50.60.8001	4	1448	D LL 4448 SOD 80						SOT 23				Chip 0603, 5%, carbon
					0 Q 11			BC857B BC857B	Q BC 857 B,	SOT 23	0 R 203	57.69.1097	10k	Chip 0603, 5%, carbon
DL 1	50.04.2132	7	TLUG 2401	DL TLUG 2401 GN MATT					Q BC 857 B,		0 R 204	57.69,1097	10k	Chip 0803, 5%, carbon
					0 Q 11:			BC857B	Q BC 857 B,	SOT 23	0 R 205	57.69.1097	10k	Chip 0603, 5%, carbon
3 1	50,99.0126		4N26	Optocoupler	0 Q 11:			BC857B	Q BC 857 B,	SOT 23	0 R 206	57.69.1097	10k	Chip 0603, 5%, carbon
2	50.99,0126	4	4N26	Optocoupler	0 Q 11-	4 50.60.1	001	BC857B	Q BC 857 B,	SOT 23	0 R 207	57.69.1097	10k	Chip 0603, 5%, carbon
3	50.99.0126	4	4N26	Optocoupler	0 Q 11			BC857B	Q BC 857 B,	SOT 23	0 R 208	57.69.1097	10k	Chip 0603, 5%, carbon
3.4	50.99.0126		4N26	Optocoupler	0 Q 11	6 50.60.1	1001	BC857B	Q BC 857 B,	SOT 23	0 R 209	57.69.1097	10k	Chip 0603, 5%, carbon
IC 5	50.99.0126	4	1N26	Optocoupler	0 Q 11	7 50.60.1	001	BC857B	Q BC 857 B.	SOT 23	0 R 210	57.69.1097	10k	Chip 0603, 5%, carbon
IC 6	50.99.0126		4N26	Optocoupler	0 Q 11	8 50.60.	001	BC857B	Q BC 857 B,	SOT 23	0 R 211	57.69.1097	10k	Chip 0603, 5%, carbon
IC 7	50.99,0126		4N26	Optocoupler	0 Q 11			BC857B	Q BC 857 B.	SOT 23	0 R 212	57.69.1097	10k	Chip 0603, 5%, carbon
IC 8	50.99.0126		4N26	Optocoupler	0 Q 12			BC857B	Q BC 857 B,	SOT 23	0 R 213	57.69.1097	10k	Chip 0603, 5%, carbon
9	50.99.0126		4N26	Optocoupler	0 Q 12			BC857B	Q BC 857 B,	SOT 23	0 R 214	57.69.1097	10k	Chip 0603, 5%, carbon
					0 Q 12			BC857B	Q BC 857 B,	SOT 23	0 R 214	57.69.1097		
10	50,99,0126		4N26	Optocoupler					Q BC 857 B,	SOT 23			10k	Chip 0603, 5%, carbon
11	50,99,0126		4N26	Optocoupler	0 Q 12			BC857B			0 R 216	57.69.1097	10k	Chip 0603, 5%, carbon
12	50.99.0126		4N26	Optocoupler	0 Q 12	4 50.60.	1001	BC857B	Q BC 857 B,	SOT 23	0 R 217	57.69.1097	10k	Chip 0603, 5%, carbon
13	50.99.0126		4N26	Optocoupler							0 R 218	57.69.1097	10k	Chip 0603, 5%, carbon
C 14	50.99.0126		4N26	Optocoupler	0 R1	57.60.		68R	MF, 1%, 0204,		0 R 219	57.69,1097	10k	Chip 0603, 5%, carbon
15	50.99.0126		4N26	Optocoupler	0 R2	57.60.		68R	MF, 1%, 0204,		0 R 220	57.69,1097	10k	Chip 0603, 5%, carbon
C 16	50.99,0126		4N26	Optocoupler	0 R3	57.60.		68R	MF, 1%, 0204,		0 R 221	57.69.1097	10k	Chip 0603, 5%, carbon
17	50.99.0126		4N26	Optocoupler	0 R4	57.60.	1680	68R	MF, 1%, 0204,	E24	0 R 222	57.69.1097	10k	Chip 0603, 5%, carbon
18	50.99.0126		4N26	Optocoupler	0 R5	57,60.		68R	MF, 1%, 0204,		0 R 223	57.69.1097	10k	Chip 0603, 5%, carbon
19	50.99.0126		4N26	Optocoupler	0 R6	57.60.	1680	68R	MF, 1%, 0204,	E24	0 R 224	57.69.1097	10k	Chip 0603, 5%, carbon
20	50,99,0126		4N26	Optocoupler	0 R7	57.60.		68R	MF, 1%, 0204,		0 R 225	57.69.1097	10k	Chip 0603, 5%, carbon
	50.99.0126		4N26 4N26	Optocoupler	0 R8	57.60.		68R	MF, 1%, 0204,		0 R 226	57,69,1097	10k	Chip 0603, 5%, carbon
C 21						57.60.		68R	MF, 1%, 0204, MF, 1%, 0204.			01,00,1001		
C 22	50.99,0126		4N26	Optocoupler	0 R9			68R			0 R 227	57.69.1097	10k	Chip 0603, 5%, carbon
23	50.99.0126		4N26	Optocoupler	0 R 10				MF, 1%, 0204,					
C 24	50.99.0126		4N26	Optocoupler	0 R 11			68R	MF, 1%, 0204,		0 XIC 34	53.03.0166	8p	DIL 0.3", lot, gerade
27	50.62,1165		74HC165	74 HC 165	0 R 12			68R	MF, 1%, 0204		0 XIC 35	53.03.0165	20p	DIL 0.3", löt, gerade
28	50.62.1165		74HC165	74 HC 165	0 R 13			68R	MF, 1%, 0204,					
29	50.62.1165		74HC165	74 HC 165	0 R 14			68R	MF, 1%, 0204,		0 XY 1	89.01.1499		QUARZ - ISOLIERPLATTE
30	50.62.1165		74HC165	74 HC 165	0 R 15			68R	MF, 1%, 0204,					
34	50.15.0115		75176	IC SN 75176 BP, DS 3695 N,	0 R 16	57.60.	1680	68R	MF, 1%, 0204,	E24	0 Y1	89.01,1016	22.1184MHz	22.118 400 MHz, HC 49/U
35	1.950.913.22			SW 917425 SIG IN (50.16.0313)	0 R 17		1680	68R	MF, 1%, 0204,	E24				
36	50.62.1004		74HC 04	74 HC 04	0 R18			68R	MF. 1%, 0204,					
Ju	30.02.1004		7-110-04	1-1.0 34	0 R 19			68R	MF. 1%, 0204,				End of L	it .
D 4	4 047 405 **	4		SIGNALING IN 24CH PCB	0 R 20			68R	MF. 1%, 0204,		Comments			
MP 1	1.917.425.11				0 R 20			68R	MF. 1%, 0204,					
1P 2	43.01.0108		Label	ESE-WARNSCHILD				68R	MF, 1%, 0204, MF, 1%, 0204.					
1P 3	1.917.425.01			BEZ, STREIFEN 6.3x91	0 R 22									
MP 4	1.010.096.49		-	KLARSICHTSCHILD	0 R 23			68R	MF, 1%, 0204,					
1P 5	1.010.006.33		Handle	GRIFFHAELFTE	0 R 24			68R	MF, 1%, 0204,					
P6	28.21.1380			ROHRNIETE, D2.25* 6.5	0 R 10			22K	MF, 1%, 0204,					
MP 7	28.99.0119	2 pcs		ROHRNIETE D 2.5*0.15* 9	0 R 10			22K	MF, 1%, 0204,					
MP 8	1.101.001.20		Label	TEXT-ETIK. 5*20 HARDWARE -20	0 R 10			22K	MF, 1%, 0204,					
					0 R 10	4 57.60.	1223	22K	MF. 1%, 0204.	E24				
IVIF 0														









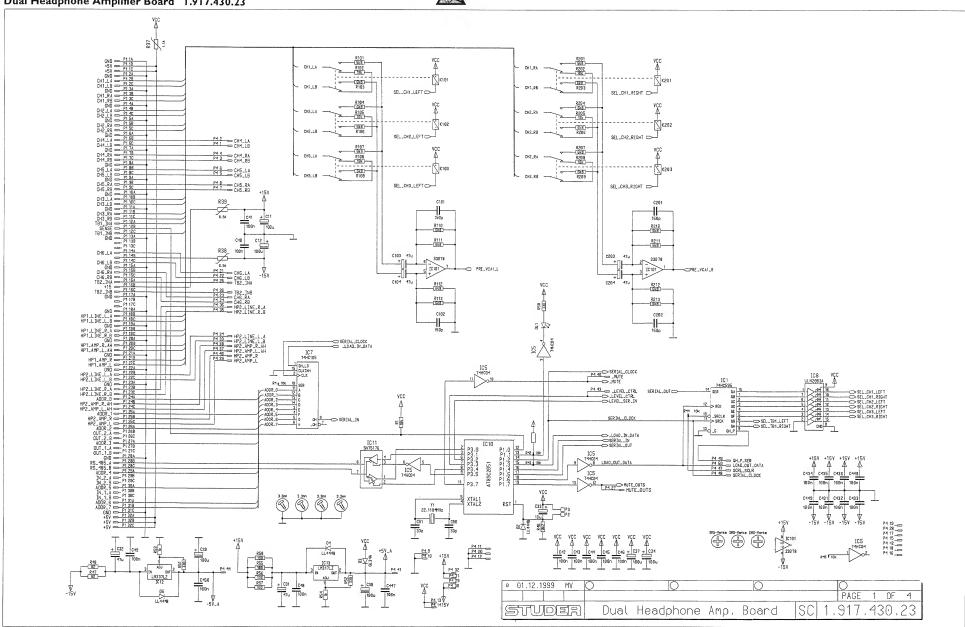




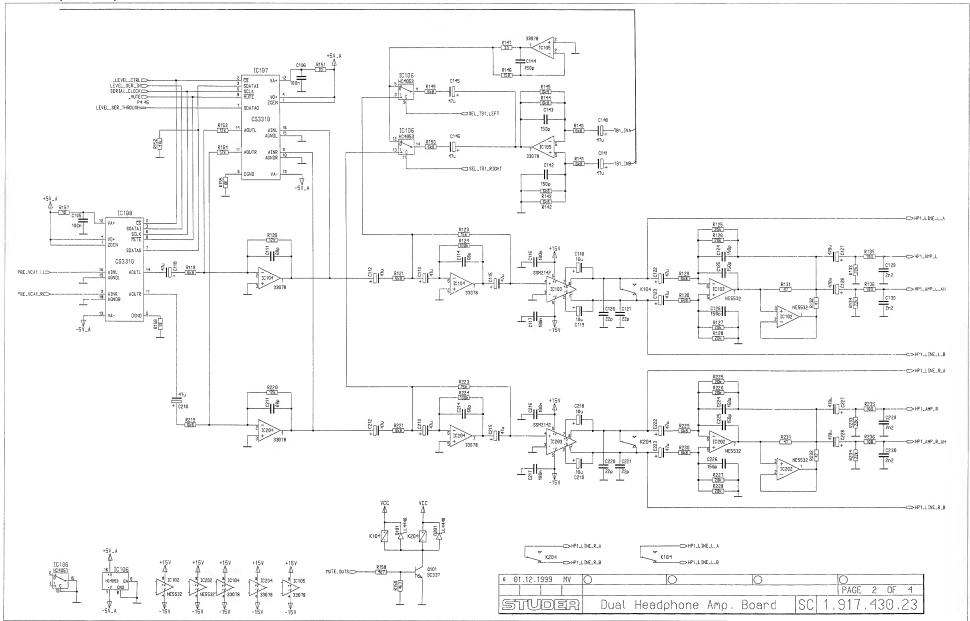
Signaling OUT 16CH Board 1.917.426.22

0 1 0 2 0 3 0 4	59.60.3337 59.60.3337	100n	CER 50V, 10%, X7R, 0805			52.02.0400			
C 2 C 3						E2 22 24CC			
C 3	00.00.0007		CER 50V, 10%, X7R, 0805	0	XIC 34	53.03.0166		8p	DIL 0.3", löt, gerade
	50 00 000T	100n		0	XIC 35	53.03.0165		20p	DIL 0.3", löt, gerade
2.4	59.60.3337	100n	CER 50V, 10%, X7R, 0805						, ,,,
J7	59.60.3337	100n	CER 50V, 10%, X7R, 0805	_	VV 4	00.04.4400			011157 100115551 1555
C 5	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0	XY 1	89.01.1499			QUARZ - ISOLIERPLATTE
26	59.60.3337	100n	CER 50V, 10%, X7R, 0805						
				U	Υ 1	89.01.1016		22.1184MHZ	22.118 400 MHz, HC 49/U
C 7	59.60.2237	33p	CER 50V, 5%, C0G, 0603						, , , , , , , , , , , , , , , , , , , ,
2.8	59.60.2237	33p	CER 50V, 5%, C0G, 0603						
2.9		10µ						end of List	
				_					
3 11	59.68.0029	100u	C-EL 6V, 6.3*5.7	(1) 17	.11.1998 P€B	has been improved	i		
C 12	59.68.0029	100u	C-EL 6V. 6.3*5.7			,			
J 10	00.00.0025	1000	O-EE 0V, 0.0 0.7						
D 25	50.60.8001	4448	200mA 75V 4ns SOD 80						
DL 1	50.04.2132	TLUG 2401	DL TLUG 2401 GN MATT						
C 26	50.62.1595	74HC595	8bit shift/output register						
C 27									
C 32	50.62.0130	ULN2003	7*Darlington driver						
C 33									
		10110							
C 35	1.950.914.22								
C 36	50.62.1004	74HC 04	Hex inverter						
		_							
(1	56.04.0198	2u	5V 125V 2A Ag/Au						
(2	56.04.0198	2u	5V 125V 2A Ag/Au						
(3									
(5	56.04.0198	2u	5V 125V 2A Ag/Au						
6	56.04.0198	2u	5V 125V 2A Ag/Au						
			_						
8	56.04.0198	2u	5V 125V 2A Ag/Au						
(9	56.04.0198	2u	5V 125V 2A Ag/Au						
k 11	56.04.0198	2u	5V 125V 2A Ag/Au						
(12	56.04.0198	2u	5V 125V 2A Ag/Au						
14	56.04.0198	2u	5V 125V 2A Ag/Au						
15	56.04.0198	2u	5V 125V 2A Ag/Au						
16	56.04.0198	2u	5V 125V 2A Ag/Au						
/IP 1	1.917.426.12 1 pce		SIGNALING OUT 16CH PCB						
1P 2	43 01 0108 1 pce	Label	ESE-WARNSCHILD						
1P 4	1.010.096.49 1 pce	-	KLARSICHTSCHILD						
1P 5	1.010.006.33 2 pcs	Handle	GRIFFHAELFTE						
		2.20 0.0							
1P 8	1.101.001.22 1 pce		TEXT-ETIK, 5*20 HARDWARE -22						
1	54.11.2009	96p	EU-R 3*32p						
2									
3	54.01.0020	1p	Pin 0.63*0.63						
125	57 92 7051	1.1A	POLY- PTC 30V						
127	57.69.1097	10k	CF 5% 0603						
128	57,69,1097	10k	CF 5% 0603						
130									
131	57.69.1097	10k	CF 5% 0603						
132		10k	CF 5% 0603						
134	57.69.1097	10k							
135	57.69.1097	10k	CF 5% 0603						
137									
138	57.69.1097	10k	CF 5% 0603						
166	57.60.1822	8K2	MF, 1%, 0204, E24						
167									
225									
226	57.69.1097	10k	CF 5% 0603						
227									
	Ç.,.55.1001								
C	110 111 112 113 125 126 127 131 132 133 134 15 16 17 18 19 110 111 111 112 113 114 115 116 117 118 119 119 119 119 119 119 119 119 119	10	10	10	10	10	100	1-10	100

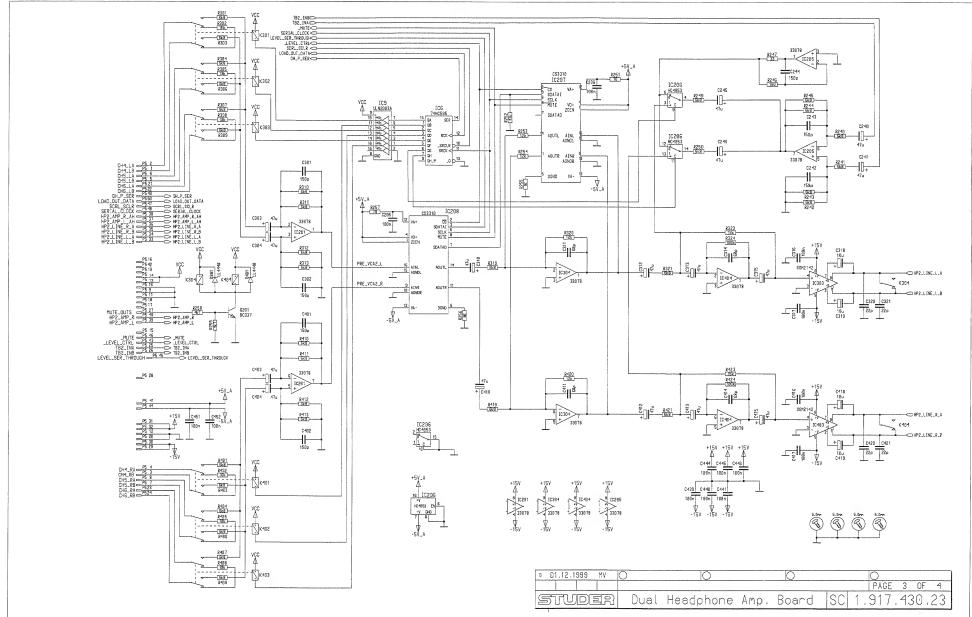






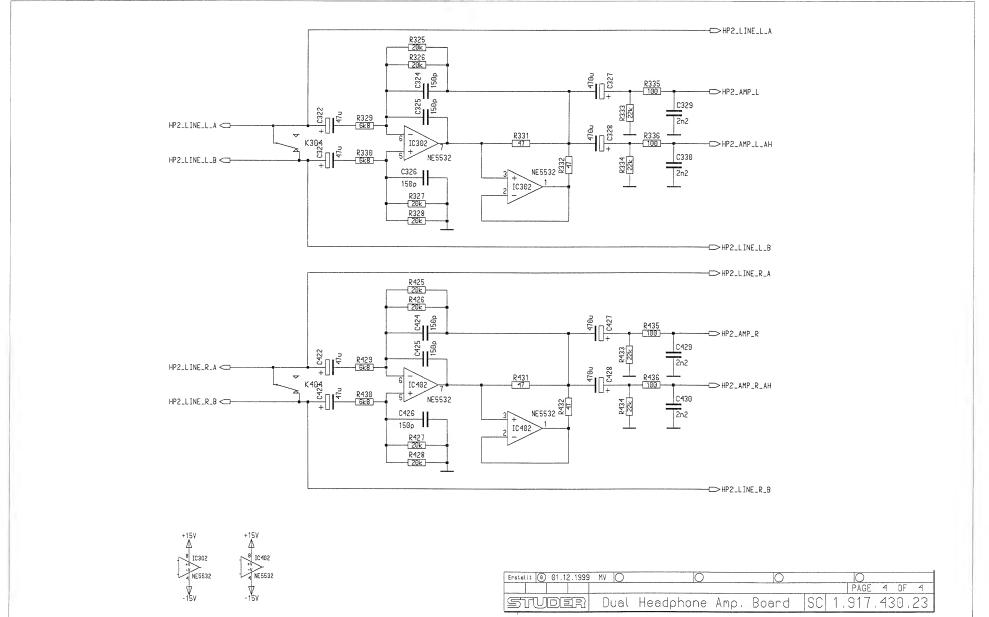




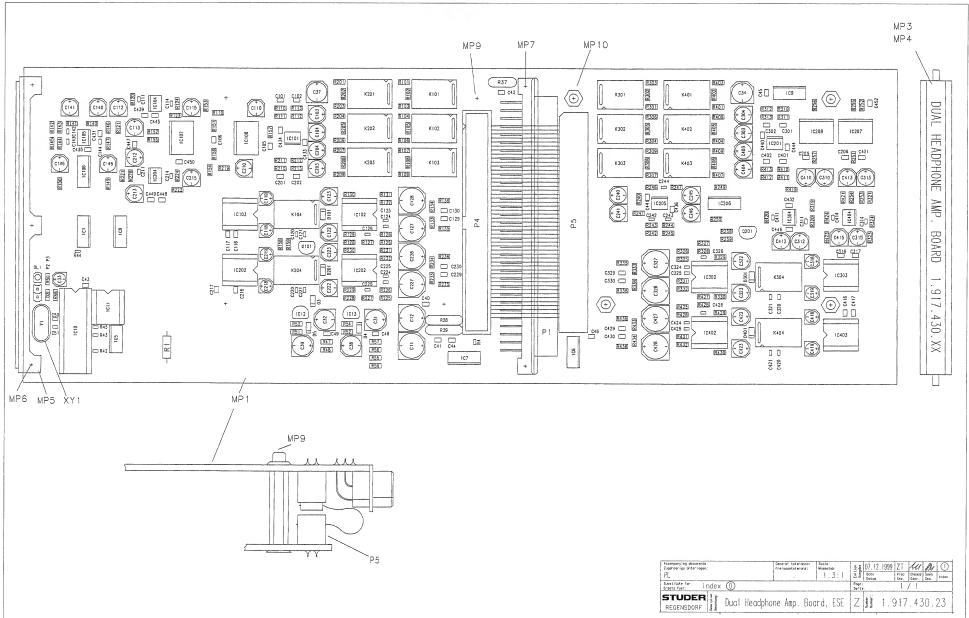














	. Tuno 0/o	Description	ldx Pos.	Dard No. Ob.	T	D debler	ldx Pos.	Deat No. Otro	Tuna 0/al	Description				
Pos. Part No. Q	***************************************	. Description		Part No. Qty.	Type/Val.	Description		Part No. Qty.		Description	ldx Pos.	Part No. Qty.	Type/Val.	Description
1 59.68.0115	100u	EL 35V, 8.0*10.7	0 C 242	59.60.2253	150p	CER 50V, 5%, C0G, 0803	0 IC1	50.62.1595	74HC595	8bit shift/output register	0 R 52	57.60.1331	330R	MF, 1%, 0204, E24
2 59.88.0115 1 59.68.0069	100u	EL 35V, 8.0*10.7	0 C 243	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 IC 5	50.62.1004	74HC 04	Hex Inverter	0 R 53	57.60.1102	1K	MF, 1%, 0204, E24
	47u	EL 16V, 6.3*5.7	0 C 244	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 IC 6	50.62.1595	74HC595	8bit shift/output register	0 R 54	57.60.1102	1K	MF, 1%, 0204, E24
59.68.0069	47u	EL 16V, 6.3*5.7	0 C 245	59.68.0027	47u	EL 6V, 5.0*5.7	0 IC 7	50.62.1165	74HC165	8bit shift register	0 R 55	57.60.1101	100R	MF, 1%, 0204, E24
59.68.0065	10u	EL 18V, 4.0*5.7	0 C 246	59.68.0027	47u	EL 6V, 5.0*5.7	0 IC8	50.62.0130	ULN2003	7*Darlington driver	0 R 56	57.60.1101	100R	MF, 1%, 0204, E24
59.88.0029	100u	EL 6V, 6.3*5.7	0 C 301	59.60.2353	150p	CER 50V, 5%, C0G, 0805	0 IC 9	50.62.0130	ULN2003	7*Darlington driver	0 R 57	57.60.1101	100R	MF, 1%, 0204, E24
7 59.68.0029	100u	EL 6V, 6.3*5.7	0 C 302	59.60.2353	150p	CER 50V, 5%, C0G, 0805	0 IC 10	1.950.916.22		SW 917430 DUALHEAD (50.16.0313	0 R 58	57.60.1101	100R	MF, 1%, 0204, E24
59.68.0029	100u	EL 6V, 6.3*5.7	0 C 303	59.68.0027	47u	EL 6V, 5.0*5.7	0 IC 11	50.15.0115	75176	IC SN 75176 BP, DS 3695 N,	0 R 101	57,60,1682	6K8	MF, 1%, 0204, E24
9 59.68.0029	100u	EL 6V, 6.3*5.7	0 C 304	59.68.0027	47u	EL 6V. 5.0*5.7	0 IC 12	50.10.0109	LM337L	Series regulator 100mA37V	0 R 102	57.60.1103	10K	MF, 1%, 0204, E24
0 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 310	59.68.0027	47u	EL 6V, 5.0*5.7	0 IC 13	50.10.0108	LM317L	Series regulator 100mA+37V	0 R 103	57,60,1682	6K8	MF, 1%, 0204, E24
1 59,60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 311	59.60.2245	68p	CER 50V. 5%, C0G, 0603	0 IC 101	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 104	57.60.1682	6K8	MF. 1%, 0204, E24
2 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 312	59.68.0027	47u	EL 6V. 5.0*5.7	0 IC 102	50.09.0106	5532AN	IC NE 5532 AN, NE 5532 AN, A	0 R 105	57 60 1103	10K	MF, 1%, 0204, E24
3 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 313	59.68.0027	47u	EL 6V. 5.0*5.7	0 IC 103	50.09.0124	2142	Audio balanced line driver	0 R 106	57.60.1682	6K8	MF, 1%, 0204, E24
4 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 314	59.60.2245	68p	CER 50V, 5%, C0G, 0603	0 IC 104	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 107	57.60.1682	6K8	MF, 1%, 0204, E24
5 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 315	59.68.0027	47u	EL 6V. 5.0*5.7	0 IC 105	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 108	57.60.1103	10K	MF, 1%, 0204, E24
6 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 316	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 106	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R 109	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
8 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 317	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 IC 107	50.61.8301	CS3310	Dig volume control ste SO16	0 R 110	57.60.1662		
9 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 318	59.68.0065	10u	EL 16V. 4.0*5.7							6K8	MF, 1%, 0204, E24
9 59.60.3337 0 59.60.2237	33p	CER 50V, 10%, X/R, 0803 CER 50V. 5%. COG. 0803	0 C 319	59.68.0065	10u 10u	EL 16V, 4.0*5.7	0 IC 108	50.61.8301	CS3310	Dig volume control ste SO16	0 R 111	57.60.1682	6K8	MF, 1%, 0204, E24
							0 IC 201	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 112	57.60.1682	6K8	MF, 1%, 0204, E24
1 59.60.2237	33p	CER 50V, 5%, COG, 0603	0 C 320	59.60.2233	22p	CER 50V, 5%, C0G, 0603	0 IC 202	50.09.0108	5532AN	IC NE 5532 AN, NE 5532 AN, ,A	0 R 113	57.60.1682	6K8	MF, 1%, 0204, E24
01 59.60.2353	150p	CER 50V, 5%, C0G, 0805	0 C 321	59.60.2233	22p	CER 50V, 5%, C0G, 0603	0 IC 203	50.09.0124	2142	Audio balanced line driver	0 R 119	57.60.1682	6K8	MF, 1%, 0204, E24
02 59.60.2353	150p	CER 50V, 5%, C0G, 0805	0 C 322	59.68.0027	47u	EL 6V, 5.0*5.7	0 IC 204	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 120	57.60.1123	12K	MF, 1%, 0204, E24
3 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 323	59.68.0027	47u	EL 6V, 5.0*5.7	0 IC 205	50.61.0204	MC33078	Dual Op-Amp low noise	0 R 121	57.60.1682	6K8	MF, 1%, 0204, E24
04 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 324	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 IC 206	50.62.8053	HC4053	Tripple 2ch analog mux/demux	0 R 123	57.60.1153	15K	MF, 1%, 0204, E24
59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 325	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 IC 207	50.61.8301	CS3310	Dig volume control ste SO16	0 R 124	57.60.1104	100K	MF, 1%, 0204, E24
06 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 326	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 IC 208	50.61.8301	CS3310	Dig volume control ste SO16	0 R 125	57.80.1203	20K	MF, 1%, 0204, E24
10 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 327	59.68.0033	470u	EL 6V, 8.0*10.7	0 IC 302	50.09.0106	5532AN	IC NE 5532 AN, NE 5532 AN, ,A	0 R 126	57.60.1203	20K	MF, 1%, 0204, E24
11 59.60.2245	68p	CER 50V, 5%, C0G, 0603	0 C 328	59.68.0033	470u	EL 6V, 8.0*10.7	0 IC 303	50.09.0124	2142	Audio balanced line driver	0 R 127	57.60.1203	20K	MF, 1%, 0204, E24
12 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 329	59.60.3317	2n2	CER 50V, 10%, X7R, 0805	0 IC 304	50.61.0204	MC33078	Dual On-Amp low noise	0 R 128	57.60.1203	20K	MF. 1%, 0204, E24
13 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 330	59.60.3317	2n2	CER 50V, 10%, X7R, 0805	0 IC 402	50.09.0106	5532AN	IC NE 5532 AN, NE 5532 AN, A	0 R 129	57.60.1682	6K8	MF, 1%, 0204, E24
14 59.60.2245	68p	CER 50V, 5%, C0G, 0603	0 C 401	59.60.2353	150p	CER 50V, 5%, C0G, 0805	0 IC 403	50.09.0124	2142	Audio balanced line driver	0 R 130	57.60.1682	6K8	MF, 1%, 0204, E24
15 59.68.0027	47u	EL 6V. 5.0*5.7	0 C 402	59.60.2353	150p	CER 50V, 5%, C0G, 0805	0 IC 404	50.09.0124	MC33078	Dual Op-Amp low noise	0 R 131	57.60.1002	47R	MF, 1%, 0204, E24 MF, 1%, 0204, E24
16 59.60.3337	100n	CER 50V. 10%, X7R, 0805	0 C 403	59.68.0027	47u	EL 6V, 5.0*5.7	0 10 404	50.01.0204	WIC33076	Dual Op-Amp low noise	0 R 132	0.10011110		
7 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 404	59.68.0027	47u	EL 6V 5.0*5.7	0 K 101	56.04.0198	2u	5V 125V 2A Ag/Au		57.60.1470	47R	MF, 1%, 0204, E24
18 59.68.0065	10u	EL 16V 4.0*5.7	0 C 410	59.68.0027	47u	EL 6V, 5.0*5.7	0 K 102	56.04.0198	2u	5V 125V 2A Aq/Au	0 R 133	57.60.1223	22K	MF, 1%, 0204, E24
19 59.68.0065	10u	EL 16V, 4.0*5.7	0 C411	59.60.2245	68p	CER 50V, 5%, COG, 0603	0 K 103	56.04.0198	2u	5V 125V 2A Aq/Au	0 R 134	57.60.1223	22K	MF, 1%, 0204, E24
			0 C411	59.60.2245	68p 47u	EL 6V. 5.0*5.7	0 K 104	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 135	57.60.1101	100R	MF, 1%, 0204, E24
	22p	CER 50V, 5%, C0G, 0603					0 K 201	56.04.0198	20	5V 125V 2A Ag/Au	0 R 136	57.60.1101	100R	MF, 1%, 0204, E24
21 59.60.2233	22p	CER 50V, 5%, C0G, 0603	0 C 413	59.68,0027	47u	EL 6V, 5.0*5.7	0 K 202	56.04.0198	2u 2u	5V 125V 2A Ag/Au 5V 125V 2A Ag/Au	0 R 140	57.60.1682	6K8	MF, 1%, 0204, E24
22 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 414	59.60.2245	68p	CER 50V, 5%, C0G, 0603	0 K 202	56.04.0198	2u 2u	5V 125V 2A Ag/Au 5V 125V 2A Ag/Au	0 R 141	57.60.1682	6K8	MF, 1%, 0204, E24
3 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 415	59.68.0027	47u	EL 6V, 5.0*5.7	0 K 203	56.04.0198	2u 2u	5V 125V 2A Ag/Au 5V 125V 2A Ag/Au	0 R 142	57.60.1682	8K8	MF, 1%, 0204, E24
24 59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 C 416	59.60.3337	100n	CER 50V, 10%, X7R, 0805					0 R 143	57.60.1682	6K8	MF, 1%, 0204, E24
25 59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 C 417	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 K 301	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 144	57.60.1682	6K8	MF, 1%, 0204, E24
26 59.60,2253	150p	CER 50V, 5%, C0G, 0603	0 C 418	59.68.0065	10u	EL 16V, 4.0*5.7	0 K 302	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 145	57.60.1682	6K8	MF, 1%, 0204, E24
27 59.68.0033	470u	EL 6V, 8.0*10.7	0 C 419	59.68.0065	10u	EL 16V, 4.0*5.7	0 K 303	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 146	57.60.1151	150R	MF, 1%, 0204, E24
28 59.68.0033	470u	EL 6V, 8.0*10.7	0 C 420	59.60.2233	22p	CER 50V, 5%, C0G, 0603	0 K 304	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 147	57.60.1330	33R	MF. 1%, 0204, E24
29 59.60,3317	2n2	CER 50V. 10%, X7R, 0805	0 C 421	59.80.2233	22p	CER 50V, 5%, C0G, 0603	0 K 401	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 149	57.60.1682	6K8	MF, 1%, 0204, E24
59.60.3317	2n2	CER 50V, 10%, X7R, 0805	0 C 422	59.68.0027	47u	EL 6V. 5.0*5.7	0 K 402	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 150	57.60.1682	6K8	MF, 1%, 0204, E24
10 59.68.0027	47u	EL 6V. 5.0*5.7	0 C 423	59.68.0027	47u	EL 6V. 5.0*5.7	0 K 403	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 151	57.60.1100	10R	MF, 1%, 0204, E24
11 59.68.0027	47u	EL 6V. 5.0*5.7	0 C 424	59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 K 404	56.04.0198	2u	5V 125V 2A Ag/Au	0 R 152	57.60.1473	47K	MF, 1%, 0204, E24
12 59.60.2253	150p	CER 50V. 5%, COG, 0603	0 C 425	59.60.2253	150p	CER 50V, 5%, COG, 0603					0 R 152	57.60.1123	12K	MF, 1%, 0204, E24 MF, 1%, 0204, E24
43 59.60.2253	150p	CER 50V, 5%, COG, 0003	0 C 426	59.60.2253	150p	CER 50V. 5%. COG. 0603	1 MP 1	1.917.430.12 1 pce		DUAL HEADPHONES AMP, PCB	0 R 153	57.60.1123		
	, p		0 C 427	59.68.0033	470u	EL 6V. 8.0*10.7	0 MP 2	43.01.0108 1 pce	Label	ESE-WARNSCHILD	0 R 154	01100.1120	12K	MF, 1%, 0204, E24
44 59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 C 428	59.68.0033		EL 6V. 8.0*10.7	0 MP3	1.917.430.01 1 pce		BEZ. STREIFEN 6,3x91		57.60.1000	0R0	MF, 0204
5 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 428	59.68.0033	470u 2n2	CER 50V, 10%, X7R, 0805	0 MP 4	1.010.096.49 1 pce	-	KLARSICHTSCHILD	0 R 156	57.60.1000	0R0	MF, 0204
6 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 429	59.60.3317 59.60.3317	2n2 2n2		0 MP 5	1.010.006.33 2 pcs	Handle	GRIFFHAELFTE	0 R 157	57.60.1100	10R	MF, 1%, 0204, E24
1 59.60.2353	150p	CER 50V, 5%, C0G, 0805				CER 50V, 10%, X7R, 0805	0 MP6	28.21.1380 3 pcs	2.25*6.5	Rohrniete Ms blank	0 R 158	57.60.1472	4K7	MF, 1%, 0204, E24
2 59.60.2353	150p	CER 50V, 5%, C0G, 0805	0 C 431	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP7	28.99.0119 2 pcs		ROHRNIETE D 2.5*0.15* 9	0 R 159	57.60.1472	4K7	MF, 1%, 0204, E24
3 59.68,0027	47u	EL 6V, 5.0*5.7	0 C 432	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP8	1.101.001.23 1 pce		TEXT-ETIK, 5*20 HARDWARE -23	0 R 201	57.60.1682	6K8	MF, 1%, 0204, E24
4 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 433	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP9	21.53.9354 4 pcs	M3*6	Z-Schraube Inbus-Ripp Zn gb ch	0 R 202	57.60.1103	10K	MF, 1%, 0204, E24
5 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 434	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 MP 10	1.010.059.22 4 pcs		NIETMUTTER, M 3 * 22.5	0 R 203	57.60.1682	6K8	MF, 1%, 0204, E24
59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 435	59.60.3337	100n	CER 50V, 10%, X7R, 0805	1 MP 11	43.10.0110	Α	Revisions-Etikette 5mm h'blau	0 R 204	57.60.1682	6K8	MF, 1%, 0204, E24
0 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 436	59.60.3337	100n	CER 50V, 10%, X7R, 0805					0 R 205	57.60.1103	10K	MF, 1%, 0204, E24
1 59.60.2245	68p	CER 50V, 5%, C0G, 0603	0 C 439	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P1	54.11.2009	96p	EU-R 3*32p	0 R 206	57.60.1682	6K8	MF, 1%, 0204, E24
2 59.68.0027	47u	EL 6V, 5.0*5.7	0 C 440	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P2	54.01.0020	1p	Pin 0.63*0.63	0 R 207	57.60.1682	6K8	MF, 1%, 0204, E24
3 59.68.0027	47u	EL 6V, 5.0°5.7	0 C 441	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P3	54.01.0020	1p	Pin 0.63*0.63	0 R 208	57.60.1103	10K	MF. 1%, 0204, E24
4 59.60.2245	68p	CER 50V, 5%, C0G, 0603	0 C 444	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 P4	54.14.2005	50p	1/20" Au, gerade, ohne Verrieg	0 R 209	57.60.1682	6K8	MF. 1%, 0204, E24
5 59.68.0027	47u	EL 6V. 5.0*5.7	0 C 445	59.80.3337	100n	CER 50V, 10%, X7R, 0805	0 P5	1.023.117.01	-	FLACHKABEL 50POL. 0.04M	0 R 210	57.60.1682	6K8	MF. 1%, 0204, E24
6 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 446	59.60.3337	100n	CER 50V, 10%, X7R, 0805					0 R 211	57.60.1682	6K8	MF, 1%, 0204, E24
7 59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 C 447	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 Q 101	50.03.0340	BC337-25	800mA, 45V, NPN	0 R 212	57.60.1682	6K8	MF, 1%, 0204, E24
8 59.68.0065	10u	EL 16V, 4.0*5.7	0 C 448	59.60.3337	100n	CER 50V, 10%, X7R, 0805	0 Q 201	50.03.0340	BC337-25	800mA, 45V, NPN	0 R 212	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
9 59.68.0065	100	EL 16V, 4.0*5.7	0 C 449	59.60.3337	100n	CER 50V 10%, X7R 0805	0 R1	57 11 3103	10k	MF. 1% 0207	0 R 213	57.60.1662	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24
9 59.66.0065	22p	CER 50V, 5%, C0G, 0603	0 C 450	59.60.3337	100n	CER 50V, 10%, X/R, 0805	0 R1	57.11.3103	10k	MF, 1%, 0207 CF 5% 0603	0 R 219	57.60.1682	6K8 12K	
1 59.60.2233	22p 22p	CER 50V, 5%, C0G, 0603 CER 50V, 5%, C0G, 0603	0 C 451	59.60.3337	100n	CER 50V, 10%, X/R, 0805 CER 50V, 10%, X/R, 0805	0 R4	57.89.1097 57.92.7051		PTC 30V				MF, 1%, 0204, E24
			0 C 451	59.60.3337					1.1A		0 R 221	57.60.1682	6K8	MF, 1%, 0204, E24
2 59.68.0027	47u	EL 6V, 5.0*5.7	0 0 402	up.00.333/	100n	CER 50V, 10%, X7R, 0805	0 R 38	57.92.7021	0.9A	PTC 60V	0 R 223	57,60,1153	15K	MF, 1%, 0204, E24
3 59.68.0027	47u	EL 6V, 5.0*5.7	0 D2	50.60.8001	4448	200mA 75V 4ns SOD 80	0 R 39	57.92.7021	0.9A	PTC 60V	0 R 224	57.60.1104	100K	MF, 1%, 0204, E24
4 59.60.2253	150p	CER 50V, 5%, C0G, 0603	2 D3	not used	GL34A	500mA 50V DO 213	0 R 42	57.69.1097	10k	CF 5% 0603	0 R 225	57.60.1203	20K	MF, 1%, 0204, E24
5 59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 D4	50.60.8001	4448	200mA 75V 4ns SOD 80	0 R 43	57.69.1097	10k	CF 5% 0603	0 R 226	57.60.1203	20K	MF, 1%, 0204, E24
6 59.60.2253	150p	CER 50V, 5%, C0G, 0603	0 D4	50.60.8001	4448	200mA 75V 4ns SOD 80	0 R 44	57,69.1097	10k	CF 5% 0603	0 R 227	57.60.1203	20K	MF, 1%, 0204, E24
7 59.68.0033	470u	EL 6V, 8.0*10.7			4448	200mA 75V 4ns SOD 80	0 R 45	57.69.1097	10k	CF 5% 0603	0 R 228	57.60.1203	20K	MF, 1%, 0204, E24
8 59.68.0033	470u	EL 6V, 8.0*10.7	0 D 101	50.60.8001			0 R 46	57.60.1822	8K2	MF, 1%, 0204, E24	0 R 229	57.60.1682	6K8	MF, 1%, 0204, E24
9 59.60.3317	2n2	CER 50V, 10%, X7R, 0805	0 D 201	50.80.8001	4448	200mA 75V 4ns SOD 80	0 R 47	57.60.1820	82R	MF 1% 0204 F24	V 17 220	57.00.1002	5110	, 170, UZU4, CZ4
30 59.60.3317	2n2	CFR 50V, 10%, X7R, 0805	0 D 301	50.60.8001	4448	200mA 75V 4ns SOD 80	0 R48	57.60.1820	82R	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
10 59.68.0027	47u	EL 6V. 5.0*5.7	0 D 401	50.60.8001	4448	200mA 75V 4ns SOD 80	0 R 50	57.60.1331	330R	MF. 1%, 0204, E24 MF. 1%, 0204, E24				
		EL 6V, 5.0*5.7	0 DL1	50.04.2132		DL TLUG 2401 GN MATT		57.60.1331	330R 330R	MF, 1%, 0204, E24 MF, 1%, 0204, E24				
41 59.68.0027	47u						0 R 51							





Pos.	Part No. Qty.	Type/Val.	Description	ldx	Pos.	Part No.	Qty.	Type/Val.	Description
R 230	57.60.1682	6K8	MF, 1%, 0204, E24	0	R 434	57.60.1223		22K	MF, 1%, 0204, E24
	57.60.1470	47R	MF, 1%, 0204, E24	0	R 435	57.60.1101		100R	MF, 1%, 0204, E24
	.60.1470	47R	MF, 1%, 0204, E24	0	R 436	57.60.1101		100R	MF, 1%, 0204, E24
57.60.122 57.60.122		22K 22K	MF, 1%, 0204, E24 MF, 1%, 0204, E24	1	W 1	not used			WIRE WRAP DRAHT D .25 L= 70
57.60.1		100R	MF, 1%, 0204, E24 MF, 1%, 0204, E24		VIO 40	50.00.0405			
57.60.1101		100R	MF, 1%, 0204, E24	0	XIC 10 XIC 11	53.03.0165		20p	DIL 0.3", löt, gerade
57.60.1682		6K8	MF, 1%, 0204, E24	0	XIC 11 XIC 102		1 pce	8p	DIL 0.3", löt, gerade
57.60.16		6K8	MF, 1%, 0204, E24	0	XIC 102 XIC 103		1 pce	8p	DIL 0.3", löt, gerade
57.60.1682		6K8	MF, 1%, 0204, E24	0	XIC 103	53.03.0166 53.03.0166		8p	DIL 0.3", löt, gerade
57 <i>.</i> 60.		6K8	MF, 1%, 0204, E24	0	XIC 202	53.03.0166	1 pce	8p	DIL 0.3", löt, gerade
57.60		6K8	MF, 1%, 0204, E24	-			1 pce	8p	DIL 0.3", löt, gerade
57.60.1682		6K8	MF, 1%, 0204, E24	0	XIC 302		1 pce	8p	DIL 0.3", löt, gerade
57.60.1151		150R	MF, 1%, 0204, E24	0	XIC 303		1 pce	8p	DIL 0.3", löt, gerade
57.60.1330		33R	MF, 1%, 0204, E24	0	XIC 402 XIC 403		1 pce	8p	DIL 0.3", löt, gerade
57.60.1682		6K8	MF, 1%, 0204, E24	U	AIC 403	53.03.0166	1 pce	8p	DIL 0.3", löt, gerade
57.60.1682		6K8	MF, 1%, 0204, E24	0	XY 1	89.01.1499	1 pce		QUARZ - ISOLIERPLATTE
57.60.1100		10R	MF, 1%, 0204, E24			00.04.4040		00 4404111	VTAL 110 40/11
57.60.1473		47K	MF, 1%, 0204, E24	0	Y 1	89.01.1016		22.1184MHZ	XTAL HC 49/U
57.60.1123		12K	MF, 1%, 0204, E24						
	0.1123	12K	MF, 1%, 0204, E24					End of Lis	:t
	30.1000	0R0	MF, 0204	Cor	nments				
	.60.1000	0R0	MF, 0204	(01)	Production s	simplification			
	7.60.1100	10R	MF, 1%, 0204, E24			; MP11 Revisio	n-label "/	4"->"B"	
	57.60.1472	4K7	MF, 1%, 0204, E24						
	7.60.1472	4K7	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1103	10K	MF, 1%, 0204, E24						
	57.60,1682	6K8	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1103	10K	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1103	10K	MF, 1%, 0204, E24						
	7.60.1682	6K8	MF, 1%, 0204, E24						
	60,1682	6K8	MF, 1%, 0204, E24						
	0.1682	6K8	MF, 1%, 0204, E24						
	60.1682 80.1682	6K8 6K8	MF, 1%, 0204, E24						
57.60.168 57.60.168		6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24						
	0.1123	12K	MF, 1%, 0204, E24 MF, 1%, 0204, E24						
57.60.1		6K8	MF, 1%, 0204, E24						
	0.1153	15K	MF, 1%, 0204, E24						
57.60.		100K	MF, 1%, 0204, E24						
57.60.1		20K	MF, 1%, 0204, E24 MF, 1%, 0204, E24						
	0.1203	20K	MF, 1%, 0204, E24						
	7.60.1203	20K	MF, 1%, 0204, E24						
	'.60.1203	20K	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1470	47R	MF, 1%, 0204, E24						
	57.60.1470	47R	MF, 1%, 0204, E24						
	57.60.1223	22K	MF, 1%, 0204, E24						
	57.60.1223	22K	MF, 1%, 0204, E24						
	57.60.1101	100R	MF, 1%, 0204, E24						
	57.60.1101	100R	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1103	10K	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1103	10K	MF, 1%, 0204, E24						
	57.60.1682 57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1682 57.60.1103	6K8 10K	MF, 1%, 0204, E24						
	57.60.1103	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24 MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	7.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	7.60.1682	6K8	MF, 1%, 0204, E24						
57	7.60.1123	12K	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
	57.60.1153	15K	MF, 1%, 0204, E24						
	57.60.1104	100K	MF, 1%, 0204, E24						
	57.60.1203	20K	MF, 1%, 0204, E24						
	57.60.1203	20K	MF, 1%, 0204, E24						
	57.60.1203	20K	MF, 1%, 0204, E24						
	57.60.1203	20K	MF, 1%, 0204, E24						
	57.60.1682	6K8	MF, 1%, 0204, E24						
57 57 57	.60.1682 .60.1682	6K8	MF, 1%, 0204, E24						
57.6 57.6 57.6 57.6	0.1682								

CIRCUIT DIAGRAMS SECTION 8

Connector Panels

Optical Synchronous IF	1.940.140
XLR Connection Unit (male)	1.980.720
XLR Connection Unit (female)	1.980.721
Siemens 39-pin Connection Unit (male), gold contacts	1.940.609
Siemens 39-pin Connection Unit (male)	1.940.610
37-pin D-Type Connection Unit (female)	1.980.761

Date printed: 21.02.02 Section 8

W14 @---

¥15 @---

TP1 🖟—

Optical Synchronous Interface 1.940.140.81 JP7_JP6 JP5 10-30 meter 18k CLOCK-IN W2 O-PI 7 HDRCB C23 100nF __£13 NC El 1 NC VP808M __P1 5 NC DATA-OUT PLLLOCK LOW 25k-299k - VCDCLK CLOCK-OUT VN808MV UNLOCK 18 PL -P1.20 L--⊚ ⊌9 ¥13 ⊚---LOCKS W12 🔘---

17.04.96 / HUB 1

Optical Synchronous IF

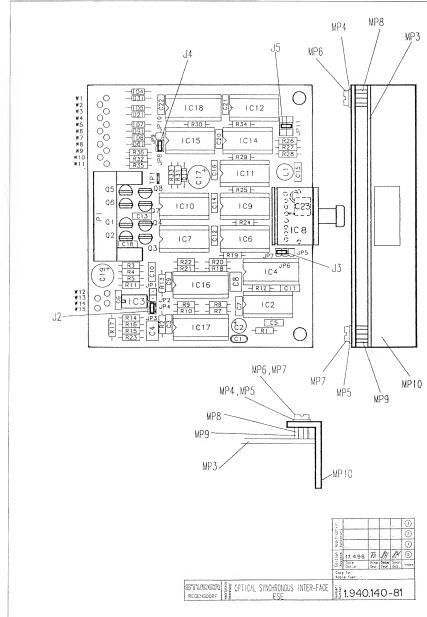
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PAGE 1 / 1

SC 1.940.140.81

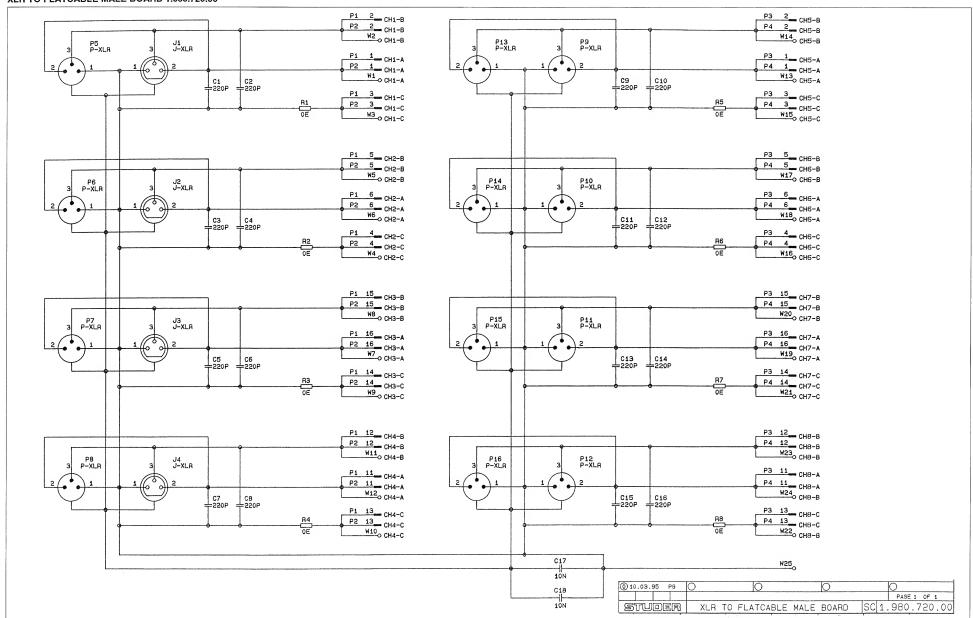


Optical Synchronous Interface 1.940.140.81

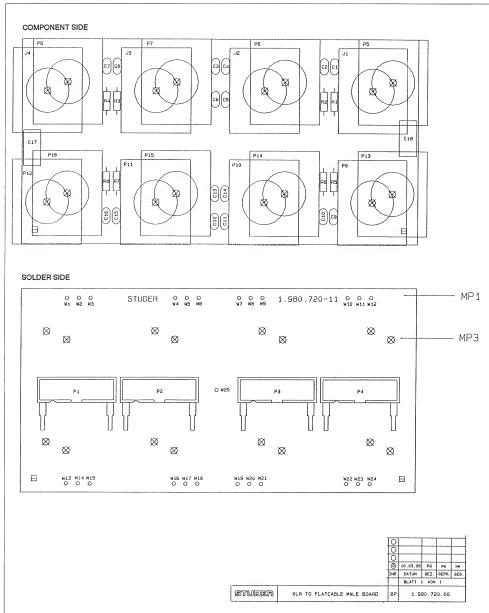


	Pos.	Part No.	Qty.	Type/Val.	Description	idx	. Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.34.4221		220p	C 220 P , 5%, N750 , CER	0	Q1	50.03.1505		VN0808M	VN 0808 M, ZVŅ 0108 A
0	C 2	59.22.8479		4u7	EL 50V, 20%, rad RM5	0	Q 2	50.03.1505		VN0808M	VN 0808 M, ZVN 0108 A
0	C 3	59.06,0683		68n	PETP, 10%, 63V	0	Q 3	50.03.1554		VP0808M	VP 0808 M
0	C 4	59.06.0474		470n	PETP, 10%, 63V	0	Q 4	50.03.1554		VP0808M	VP 0808 M
0	C 5	59.06,0683		68n	PETP, 10%, 63V	0	Q 5	50.03.1505		VN0808M	VN 0808 M, ZVN 0108 A
0	C 6	59.06.0683		68n	PETP, 10%, 63V	0	Q 6	50.03,1505		VN0808M	VN 0808 M, ZVN 0108 A
0	C 7	59.06.0152		1n5	PETP, 10%, 63V	0	Q 7	50.03.1554		VP0808M	VP 0808 M
0	C 8	59.06.0474		470n	PETP, 10%, 63V	0	Q 8	50.03.1554		VP0808M	VP 0808 M
0	C 9	59.06.0683		68n	PETP, 10%, 63V						
0	C 10	59,06,0683		68n	PETP, 10%, 63V	0	R 1	57.11.3222		2k2	MF, 1%, 0207
0	C 11	59.06.0683		68n	PETP, 10%, 63V	0	R 2	57.11.3472		4k7	MF, 1%, 0207
0	C 12	59.06.0683		68n	PETP, 10%, 63V	0	R3	57.11.3271		270R	MF, 1%, 0207
0	C 13	59.06.0104		100n	PETP, 10%, 63V	0	R 4	57.11.3102		1k0	MF, 1%, 0207
0	C 14	59.06.0683		68n	PETP, 10%, 63V	0	R 5	57.11.3103		10k	MF, 1%, 0207
0	C 15	59.06.0104		100n	PETP, 10%, 63V	0	R 6	not used		9k1	MF, 1%, 0207
0	C 16	59.06.0683		68n	PETP, 10%, 63V	0	R 7	57.11.3470		47R	MF, 1%, 0207
0	C 17	59.22.6470		47u	EL 40V, 20%, rad RM5	0	R 8	57.11.3331		330R	MF, 1%, 0207
0	C 18	59.06,0104		100n	PETP, 10%, 63V	0	R 9	57.11.3472		4k7	MF, 1%, 0207
0	C 19	59.22.6470		47u	EL 40V, 20%, rad RM5	0	R 10	57.11.3274		270k	MF, 1%, 0207
0	C 20	59.06.0683		68n	PETP, 10%, 63V	0	R 11	57.11.3823		82k	MF, 1%, 0207
0	C 21	59,06.0683		68n	PETP, 10%, 63V	0	R 12	57.11.3222		2k2	MF, 1%, 0207
0	C 22	59.06.0683		68n	PETP, 10%, 63V	0	R 13	57.11.3393		39k	MF, 1%, 0207
0	C 23	59.06.0104		100n	PETP, 10%, 63V	0	R 14	57.11.3823		82k	MF, 1%, 0207
						0	R 15	57.11.3102		1k0	MF, 1%, 0207
0	D 1	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	R 16	57.11.3103		10k	MF, 1%, 0207
0	D 2	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	R 17	57.11.3912		9k1	MF, 1%, 0207
0	D 3	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	R 18	57.11.3181		180R	MF, 1%,0207
0	D 4	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	R 19	57.11.3222		2k2	MF, 1%, 0207
0	D 5	50.04,0125		1N4448	75V, 150mA, 4ns, DO-35	0	R 20	57.11.3471		470R	MF, 1%, 0207
0	D 6	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	R 21	57.11.3274		270k	MF, 1%, 0207
0	D 7	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	R 22	57.11.3333		33k	MF, 1%, 0207
0	D 8	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	R 23	57.11,3561		560R	MF, 1%, 0207
0	D 9	50.04.0125		1N4448	75V, 150mA, 4ns, DO-35	0	R 24	57.11.3222		2k2	MF, 1%, 0207
						0	R 25	57.11.3222		2k2	MF, 1%, 0207
0	IC 2	50.17.1074		74HC74	IC 74 HC 74 ., ,A	0	R 26	57.11.3183		18k	MF, 1%, 0207
0	IC 3	50.05.0283		LM393	Dual Comparator .	0	R 27	57.11.3622		6k2	MF, 1%, 0207
0	IC 4	50.17.1153		74HC153	IC 74 HC 153 ., ,A	0	R 28	57.11.3122		1k2	MF, 1%, 0207
0	IC 6	50.17.1074		74HC74	IC 74 HC 74 ., ,A	0	R 29	57.11.3222		2k2	MF, 1%, 0207
0	IC 7	50.17.1086		74HC86	IC 74 HC 86 ., ,A	0	R 30	57.11.3101		100R	MF, 1%, 0207
0	IC 8	89.10.0101			TODX 295 ,A	0	R 31	57.11.3101		100R	MF, 1%, 0207
0	IC 9	50,17,1086		74HC86	IC 74 HC 86 ., ,A	0	R 32	57,11.3201		200R	MF, 1%, 0207
0	IC 10	50,17,1014		74HC14	IC 74 HC 14 ., ,A	0	R 33	57.11.3223		22k	MF, 1%, 0207
0	IC 11	50.17.1074		74HC74	IC 74 HC 74 ., ,A	0	R 34	57.11.3271		270R	MF, 1%, 0207
0	IC 12	50.17.1032		74HC32	IC 74 HC 32 ., ,A	0	R 35	57.11.3101		100R	MF, 1%, 0207
0	IC 14	50.17.1113		74HC113	IC 74 HC 113 ., ,A	0	R 36	57.11.3101		100R	MF, 1%, 0207
0	IC 15	50.17.1086		74HC86	IC 74 HC 86 ., ,A						
ō	IC 16	50.17.4046			IC 74 HC 4046 ., ,A	0	TP 1	54.02,0320		1p	Flatpin, 2.8*0.8mm
0	IC 17	50,17,4046			IC 74 HC 4046 ., ,A						
0	IC 18	50.15.0104		MC3486	IC MC 3486 P, DS 3486 N,	TTT-				End of Li	ist
						_				Lina or Li	
0	J2	54.01.0021		Jumper	0.63 * 0.63mm	Co	mments				
0	J 3	54.01.0021		Jumper	0,63 * 0.63mm						
0	J 4	54.01.0021		Jumper	0.63 * 0.63mm						
0	J 5	54.01.0021		Jumper	0.63 * 0.63mm						
				•							
0	JP 1	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4						
0	JP 2	54.01.0020		1-P	P STIFT .63*.63, H≃5.8/3.4						
0	JP 3	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4						
0	JP 4	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4						
0	JP 5	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4						
0	JP 6	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4						
0	JP 7	54.01.0020		1-P	P STIF,T .63*.63, H=5.8/3.4						
0	JP 8	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4						
0	JP 9	54.01.0020		1-P	P STIFT .63*.63, H=5.8/3.4						
0	JP 10	54.01,0020		1-P	P STIFT .63*.63, H=5.8/3.4						
0	JP 11	54.11.0136		2*3p	Pin 0.63*0.63, RM2.54						
0	L 1	62.02,3101		100uH	L 100 U , 10%, RAD., RM 5						
0	MP 1	43.01.0108	pce	Label	ESE-WARNSCHILD						
0	MP 1	1,940,140,04		FRICEI	NRETIKETTE 5 * 20						
0	MP 3	1.940.140.04	pce		OPTICAL SYNCHRONOUS PCB //\						
0	MP 3	1.940.140.11			RIPPENSCHEIBE D 3.2/5.5						
0	MP 5		pce								
0	MP 5	24.16.1030 21.53.0354	pce		RIPPENSCHEIBE D 3.2/5.5						
			pce		Z - SCHR. IS , ZN , M 3 * 6						
0	MP 7 MP 8	21.53.0354	pce	044.5	Z - SCHR. IS , ZN , M 3 * 6						
0	MP 8	1.010,014.22	pce	3*4.5	NIETMUTTER SW 6 M 3 *4,5						
0	MP 10	1.010.014.22	pce	3*4.5	NIETMUTTER SW 6 M 3 *4,5 PRINTHALTER						
U	WF 10	1.940,140.01	pce		PRINTHALTER						
0	P 1	64 14 2102		20-P	P STECKER 20 P.AU,VR,GERADE						
U	P 1	54.14.2103		20-17	F STEUNER ZU PAU, VK, GERADE						

XLR TO FLATCABLE MALE BOARD 1.980,720,00

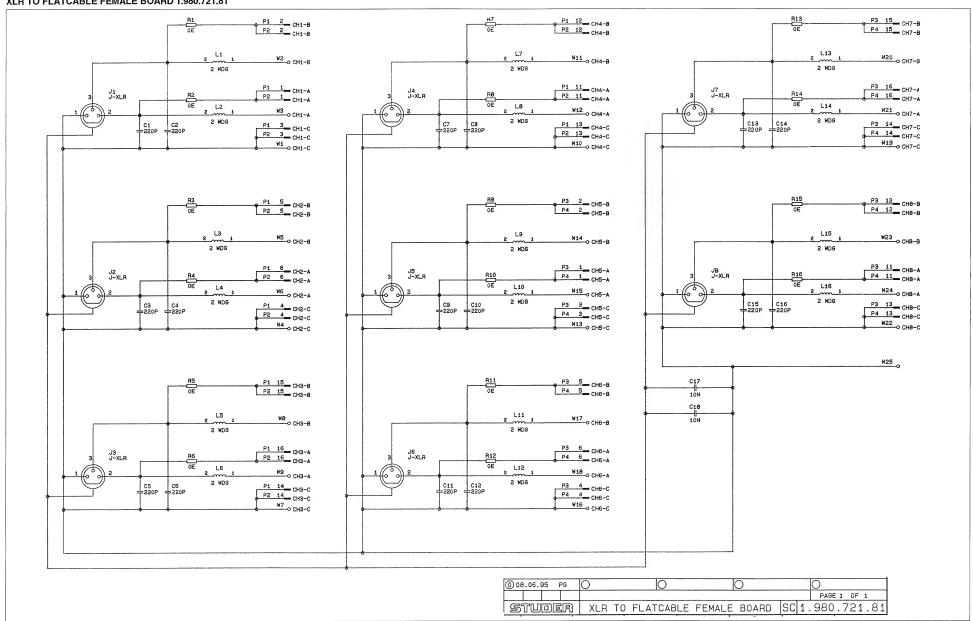


XLR TO FLATCABLE MALE BOARD 1.980.720.00



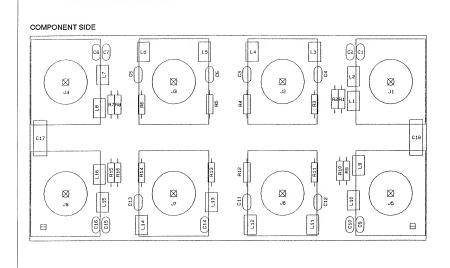
ldx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 2	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 3	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 4	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 5	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 6	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 7	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 8	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 9	59.32,1221		220p	C 220 P, 10%, 400V, CER
0	C 10	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 11	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 12	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 13	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 14	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 15	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 16	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 17	59.05.6103		10n	C .01 U , 10%, 400V , MPP
0	C 18	59.05.6103		10n	C .01 U , 10%, 400V , MIPP
0	J 1	54.21.2002		JXLR3p	J 3 POL CHASSIS/PRINT,XLR
0	J 2	54.21.2002		JXLR:3p	J 3 POL CHASSIS/PRINT,XLR
0	J3	54.21.2002		JXLR3p	J 3 POL CHASSIS/PRINT,XLR
0	J 4	54.21.2002		JXLR3p	J 3 POL CHASSIS/PRINT,XLR
0	MP 1	1.980.720.11	1 pce		XLR TO FLATCABLE MALE PCB /!\
0	MP 2	1.980.720.04	1 pce		NRETIKETTE 5 * 20
0	MP 3	20.21.7102	8 pcs	MP	LIN-BLECHSCHR. KS D2.2* 4.5
0	P 1	54.14.2102		16-P	P STECKER 16 P,AU,VR,GERADE
0	P 2	54.14.2102		16-P	P STECKER 16 P,AU,VR,GERADE
0	P 3	54.14.2102		16-P	P STECKER 16 P,AU,VR,GERADE
0	P 4	54.14.2102		16-P	P STECKER 16 P,AU,VR,GERADE
0	P 5	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 6	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 7	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 8	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 9	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 10	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 11	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 12	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 13	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 14	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 15	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	P 16	54.21.2001		PXLR3p	P 3 POL CHASSIS/PRINT,XLR
0	R 1	57.11.3000		0R0	R 0 , 0207, MF
0	R 2	57.11.3000		0R0	R 0 , 0207, MF
0	R 3	57.11.3000		0R0	R 0 , 0207, MF
0	R 4	57.11.3000		0R0	R 0 , 0207, MF
0	R 5	57.11.3000		0R0	R 0 , 0207, MF
0	R 6	57.11.3000		0R0	R 0 , 0207, MF
0	R 7	57.11.3000		0R0	R 0 , 0207, MF
0	R 8	57.11.3000		0R0	R 0 , 0207,MF
				End of Lis	

XLR TO FLATCABLE FEMALE BOARD 1.980.721.81

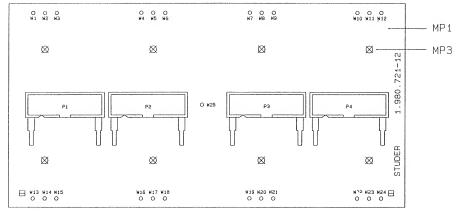




XLR TO FLATCABLE FEMALE BOARD 1.980.721.81



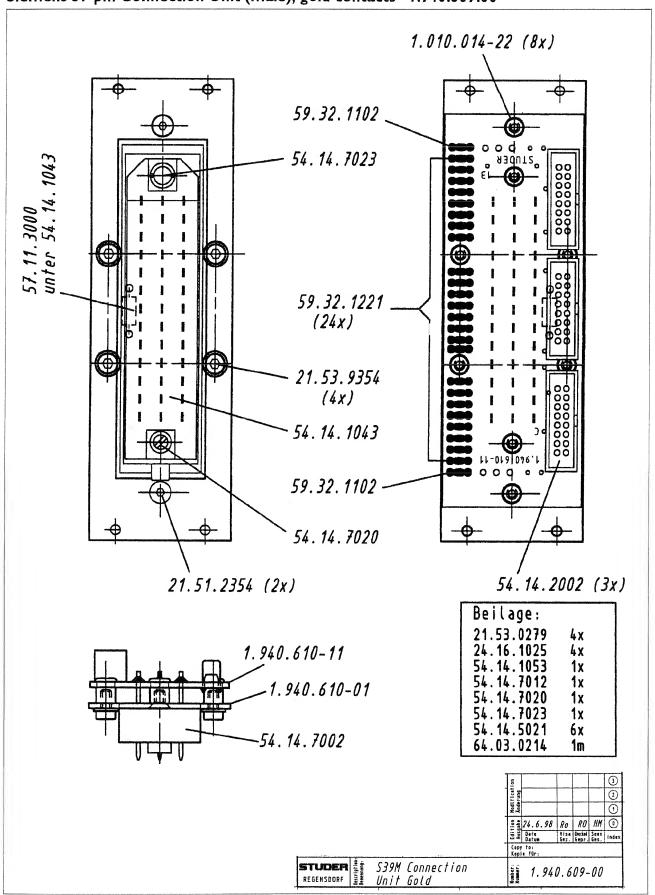
SOLDER SIDE



					0					
					0					
					0					
					0	08.06.95	PG	PG	НН	
					IND.	DATUM	GEZ.	GEPA .	GES.	
						BLATT 1 VON 1				
STUDER	XLR T	O FLATCABLE	FEMALE	BOARD	ВР	1.980.721.81				

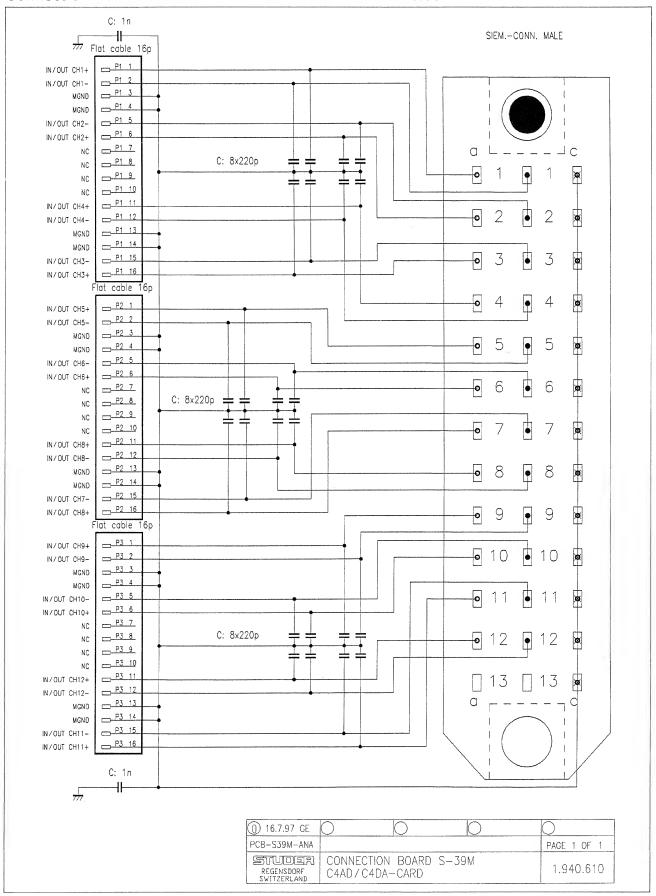
ldx.	Pos.	Part No.	Qty.	Type/Val.	Description
0	C 1	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 2	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 3	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 4	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 5	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 6	59.32,1221		220p	C 220 P, 10%, 400V, CER
0	C 7	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 8	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 9	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 10	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 11	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 12	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 13	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 14	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 15	59.32.1221		220p	C 220 P, 10%, 400V, CER
0	C 16	59.32.1221		220p	C 220 P , 10%, 400V , CER
0	C 17	59.05.6103		10n	C .01 U , 10%, 400V , MPP
0	C 18	59.05.6103		10n	C .01 U , 10%, 400V , MPP
0	MP 1	1.980.721.12	1 pce		XLR to Flatcable fem Board PCB
0	MP 2	1.980.721.04	1 pce		NRETIKETTE 5 * 20
0	P 1	54.14.2102		16-P	P STECKER 16 P,AU,VR,GERADI
0	R 1	57.11.3000		0R0	R 0 , 0207, MF
0	R 2	57.11.3000		0R0	R 0 , 0207,MF
0	R 3	57.11.3000		0R0	R 0 , 0207,MF
0	R 4	57.11.3000		0R0	R 0 , 0207, MF
0	R 5	57.11.3000		0R0	R 0 , 0207,MF
0	R 6	57.11.3000		0R0	R 0 , 0207,MF
0	R 7	57.11.3000		0R0	R 0 , 0207,MF
0	R 8	57.11.3000		0R0	R 0 , 0207,MF
0	R 9	57.11.3000		0R0	R 0 , 0207,MF
0	R 10	57.11.3000		0R0	R 0 , 0207, MF
0	R 11	57.11.3000		0R0	R 0 , 0207,MF
0	R 12	57.11.3000		0R0	R 0 , 0207, MF
0	R 13	57.11.3000		0R0	R 0 , 0207, MF
0	R 14	57.11.3000		0R0	R 0 , 0207,MF
0	R 15	57.11.3000		0R0	R 0 , 0207, MF
0	R 16	57.11.3000		0R0	R 0 , 0207, MF
				End of	List

Siemens 39-pin Connection Unit (male), gold contacts 1.940.609.00



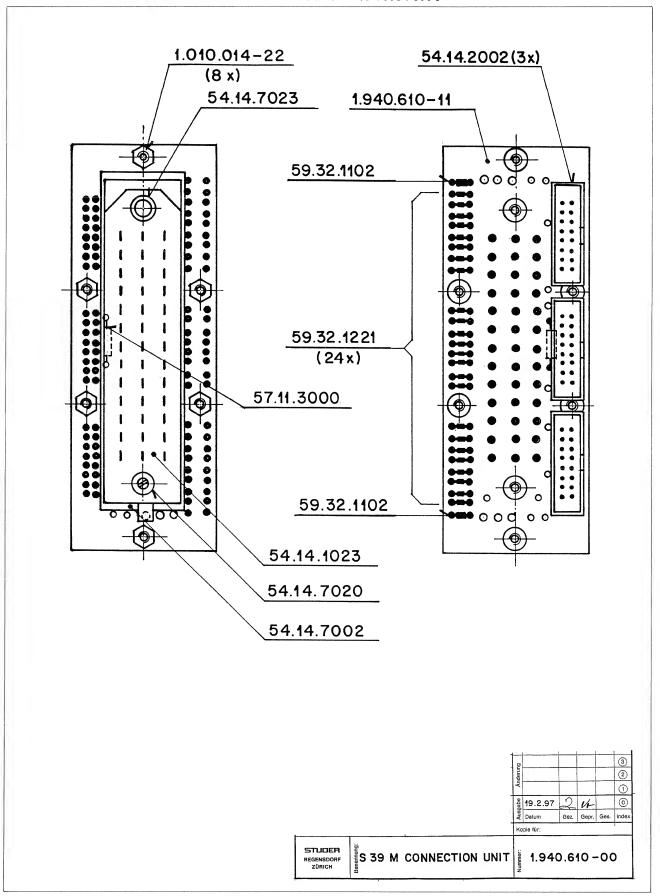


Connection Board S-39M C4AD / C4DA-Card 1.940.610.00

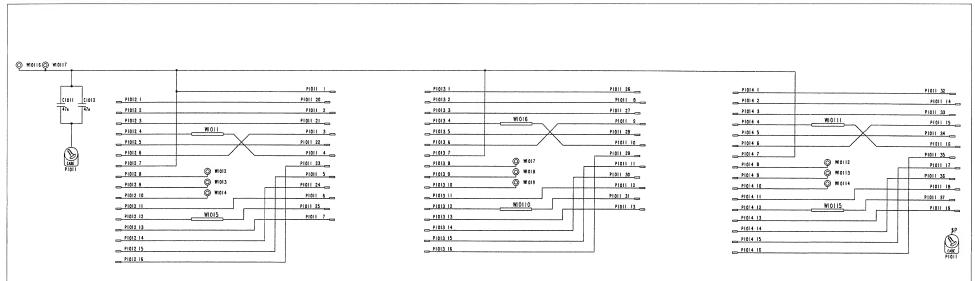




Connection Board S-39M C4AD / C4DA-Card 1.940.610.00



3 x 16-PIN TO 37-PIN D-TYPE BOARD 1.980.761.00



AdPOS	REF.No	DESCRIP	TION		MANUFACTURER
C1011	59.06.0473	47 nF	63V	C-PETP	
C1012	59,02.5473	47 nF	250V		
P1011	54.13.0074	37 Pin	PCR D-Rud	nse winkel	
P1012	54.14.2102	16 Pin	PCB Stecke	r gerade	
P1013	54.14.2102	16 Pin	PCB Stecke	r gerade	
P1014	54.14.2102	16 Pin	PCB Stecke		
MP101	1.980.761.11	EMPTY	PCB		

1.980.761.00 3x 16P TO 37D TYP PCB ZT 95/03/21

	0 2	1.03.	95/	ZT	0		(0		0		0		
												PAGE	1/1	
1	STI	JDE	R			3x 16P	t o	37D	TYP	PCB	SC	1.980.	761.	00